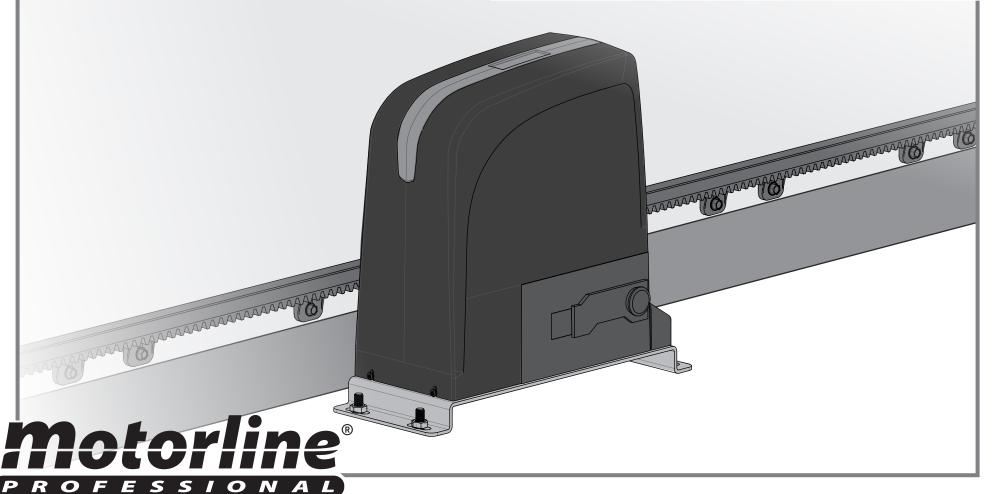




**USER'S AND INSTALLER'S MANUAL** 



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## 01. SAFETY INSTRUCTIONS

### **ATTENTION:**

This product is certified in accordance with European  $C \in$ Community (EC) safety standards.

This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment and with Delegated Directive (EU) 2015/863 from Commission.

(Applicable in countries with recycling systems).

This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other



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commercial waste.

This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

## **01. SAFETY INSTRUCTIONS**

## GENERAL WARNINGS

- •This manual contains very important safety and usage information. very important. Read all instructions carefully before beginning the installation/usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- •The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- · When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- •The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.

• Children shouldn't play with the product or opening devices to avoid the motorized door or gate from being triggered involuntarily.

### **WARNINGS FOR TECHNICIANS**

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- · Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central from the bottom.
- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16

## 01. SAFETY INSTRUCTIONS

September 2009.

- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- •The product is only powered by low voltage satefy with central (only at 24V motors)

### WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits. and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety conditions have been met.
- In the event of tripping of circuits breakers of fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

## RESPONSABILITY

- Supplier disclaims any liability if:
  - Product failure or deformation result from improper installation use or maintenance!
  - · Safety norms are not followed in the installation, use and maintenance of the product.
  - Instructions in this manual are not followed.
  - Damaged is caused by unauthorized modifications
  - In these cases, the warranty is voided.

### MOTORLINE ELECTROCELOS SA.

Travessa do Sobreiro, nº29 4755-474 Rio Côvo (Santa Eugénia) Barcelos, Portugal

## **SYMBOLS LEGEND:**



 Important safety notices



Useful information



 Programming information



 Potentiometer information



 Connectors information



 Buttons information

## 02. AUTOMATISM

## **TECHNICAL SPECIFICATIONS**

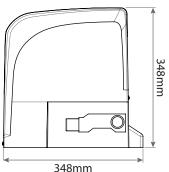


- Automated system for residential or industrial sliding gates with a maximum of 1000kgs. It consists of a reversing electro-mechanical gearmotor, powered by a 24V control board.
- The automation has a programmable electronic control board that allows the adjustment of various parameters such as working time, pause time, anti-crushing sensitivity as well as partial opening width (pedestrian access).
- The reversing system guarantees the gate will automatically lock when the motor is not operating.
- A release system enables the gate to be moved by hand in case of malfunction or emergency.
- The automated system was designed and built for controlling sliding gates. Do not use for any other purpose.

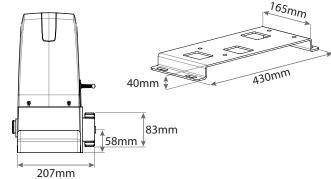
#### Automated system technical specifications:

• Power Supply	110/230Vac 50/60Hz
• Motor	24Vdc
• Power	180W
• Rotational speed	186mm/sec
• Noise	≤ 56dB
Working temperature	-25°C to +65°C
• Protection class	IP44
Maximum leaf weight	1000Kg
• Frequency of work	intensive

#### MOTOR DIMENSIONS



#### FIXING PLATE DIMENSIONS

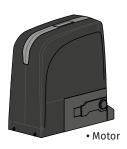


## **Motorline**®

## 02. AUTOMATISM

## KIT COMPONENTS

You should check the following items on the automation package before beginning the installation.

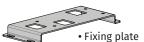






 Magnetic limit switch or mechanical limit switches plates

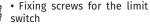






Motor fixing screws





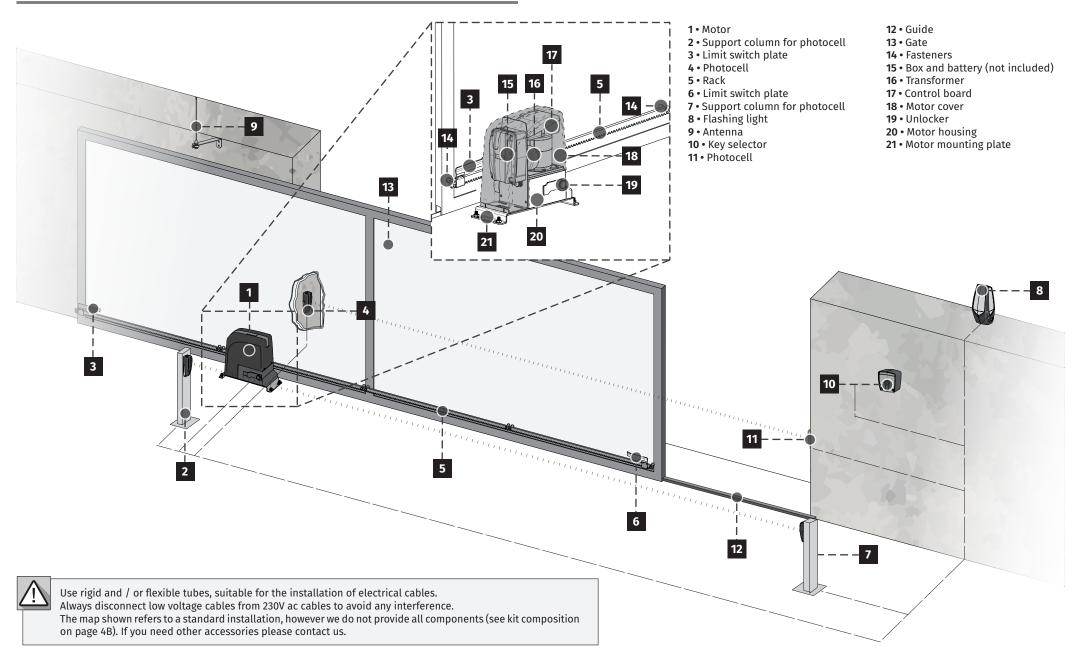


Unlocking keys



User manual

## **INSTALLATION MAP**



## **CHANGE MOTOR ORIENTATION**



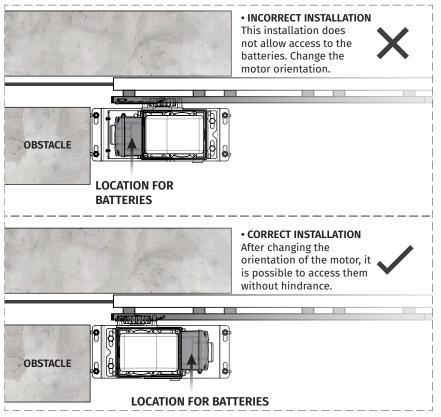
#### **ORIGINAL MOTOR POSITION**

• The motor is factory-built with the location for batteries (not included) as shown in the image on the side.



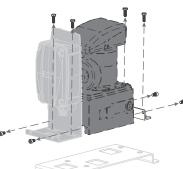
If there is an obstacle that prevents access to the batteries, you must change the orientation of the motor.

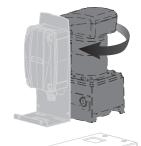
#### LEFT INSTALLATION

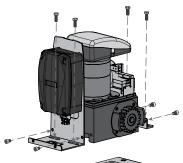


#### **CHANGE MOTOR ORIENTATION**

If the fixing plate is already tightened on the foundation, it is necessary to unscrew it in order to change the orientation of the motor.

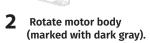




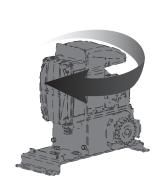




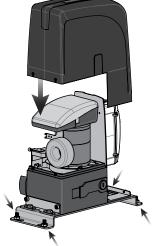
Remove screws.



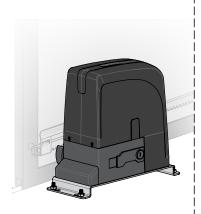
Tighten the screws again.



Rotate everything (motor and plate) so as to direct the pinion to the rack.

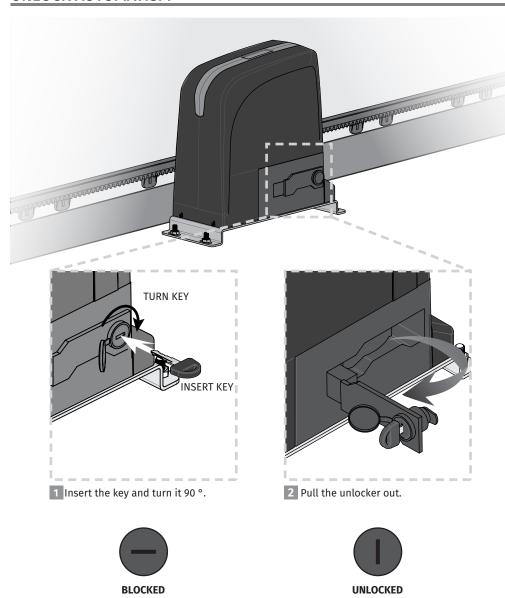


Tighten the 4 fixing screws to the ground and insert the cover.



**6** Final position.

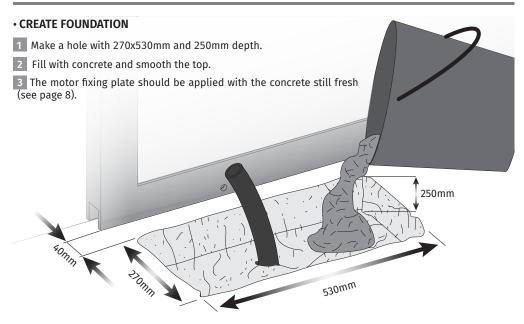
## **UNLOCK AUTOMATISM**



After following these steps, you can manually open/close the gate. For the automatism to work again, you have to close the unlocker and turn the key.

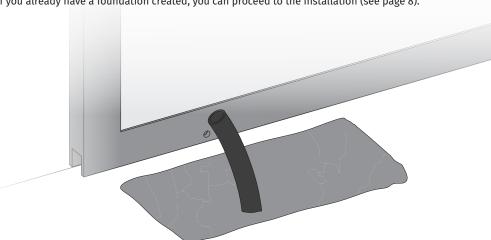
# 03. INSTALLATION

## **FOUNDATION**



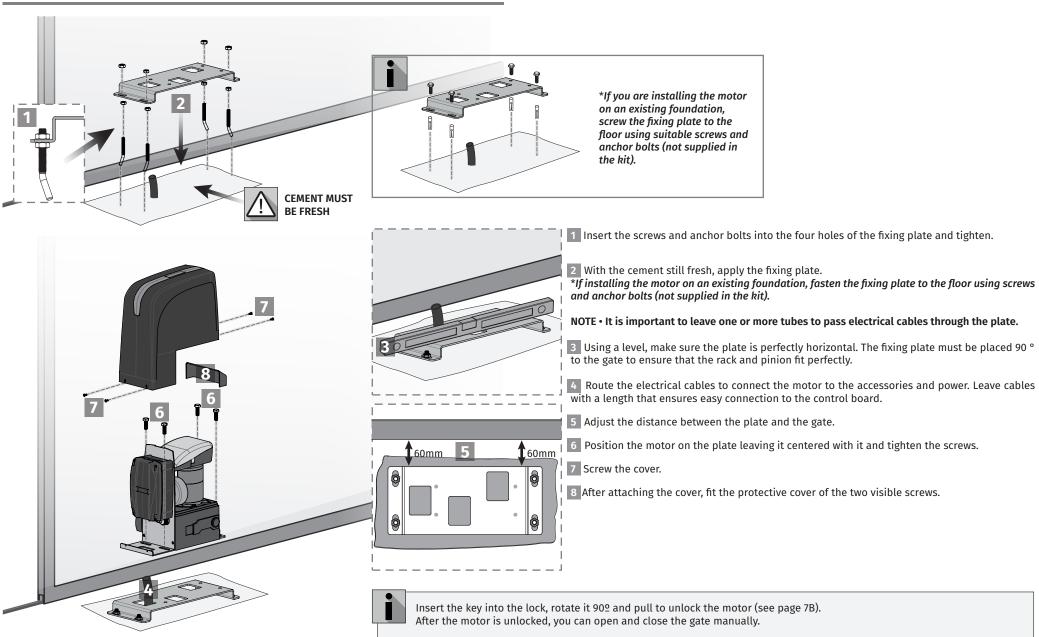
#### EXISTING FOUNDATION

If you already have a foundation created, you can proceed to the installation (see page 8).

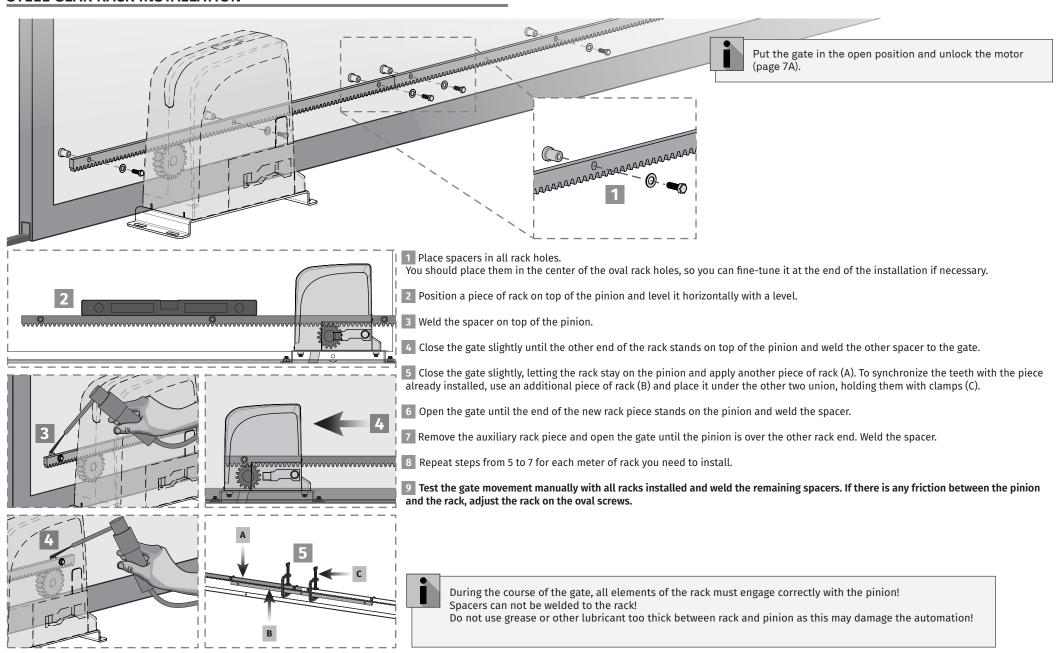




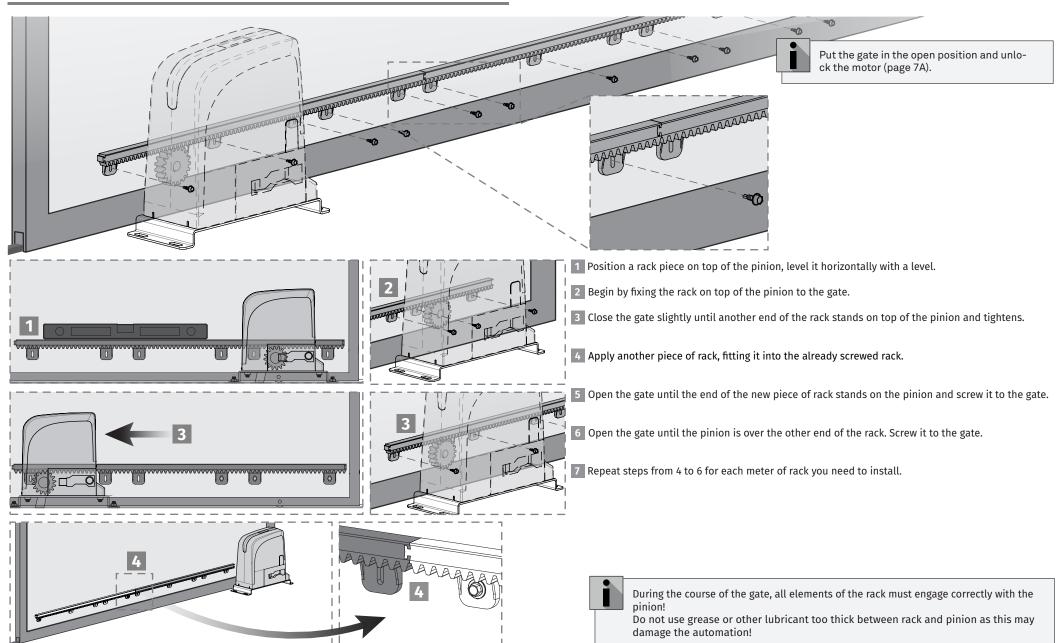
## **MOTOR INSTALLATION**



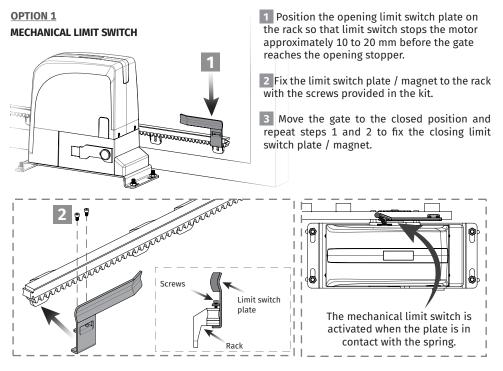
### STEEL GEAR RACK INSTALLATION

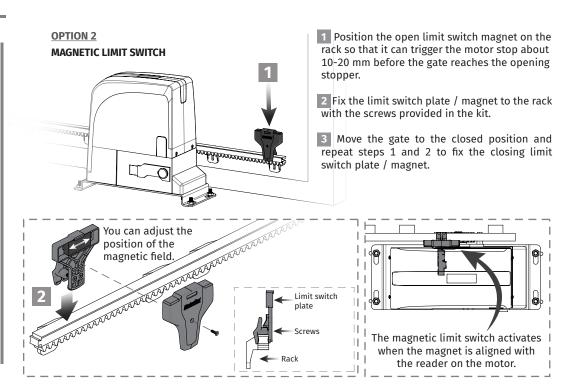


## **NYLON GEAR RACK INSTALLATION**



## **LIMIT SWITCH**

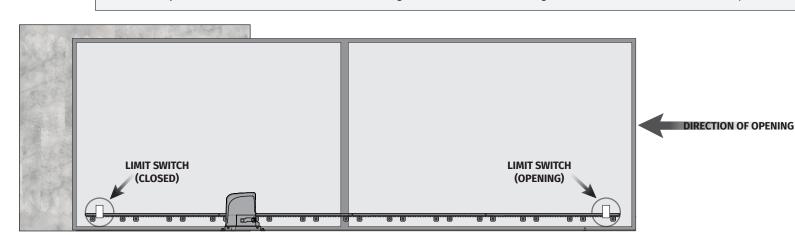




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The limit switch must be set for the gate to stop before touching the closing or opening stoppers.

Manually test the activation of the limit switches with the gate unlocked before connecting the motor to the electric current to avoid problems due to poor configuration.



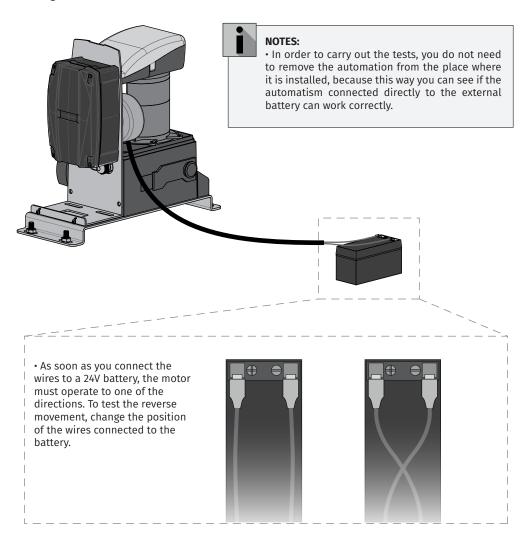


# 04. COMPONENT TEST

### **MOTOR TEST**

To detect which components are faulty, it is sometimes necessary to perform tests with a direct connection to an external power supply (24 Vdc).

The diagram below shows how this connection should be made.

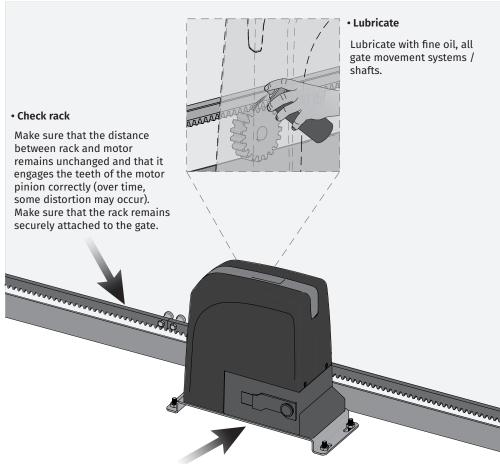




All tests must be carried out by specialized technicians due to the serious danger related to the misuse of electrical systems!

## **05. MAINTENANCE**

## **MAINTENANCE**



· Check support plate

Make sure that the supports remain securely attached to the pillars and gate for proper operation of the equipment.



These maintenance measures must be carried out within 6 months to maintain the correct operation of the automation.



