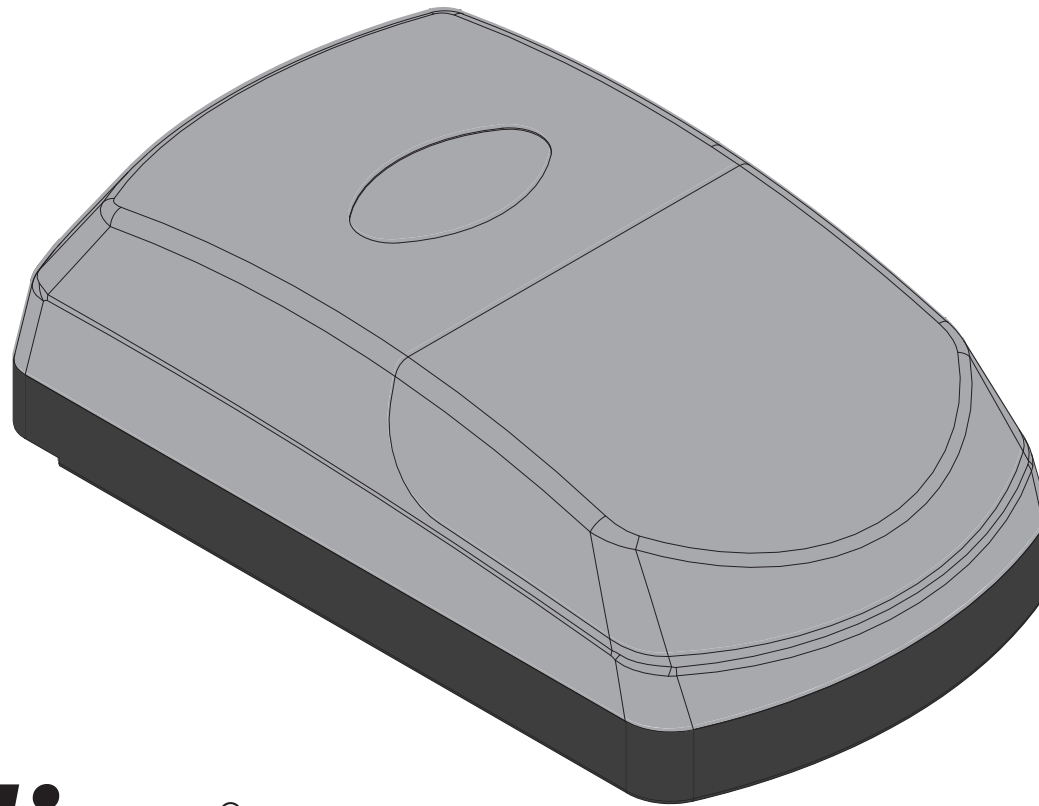




KVM25

USER'S AND INSTALLER'S MANUAL







motorline[®]
PROFESSIONAL

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ATTENTION:

	This product is certified in accordance with European Community (EC) safety standards.
RoHS	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 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 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

01. SAFETY INSTRUCTIONS

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 safety 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 or 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.

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4755-474 Rio Côvo (Santa Eugénia)
Barcelos, Portugal

SYMBOLS LEGEND:



• Important safety notices



• Useful information



• Programming information



• Potentiometer information



• Connectors information



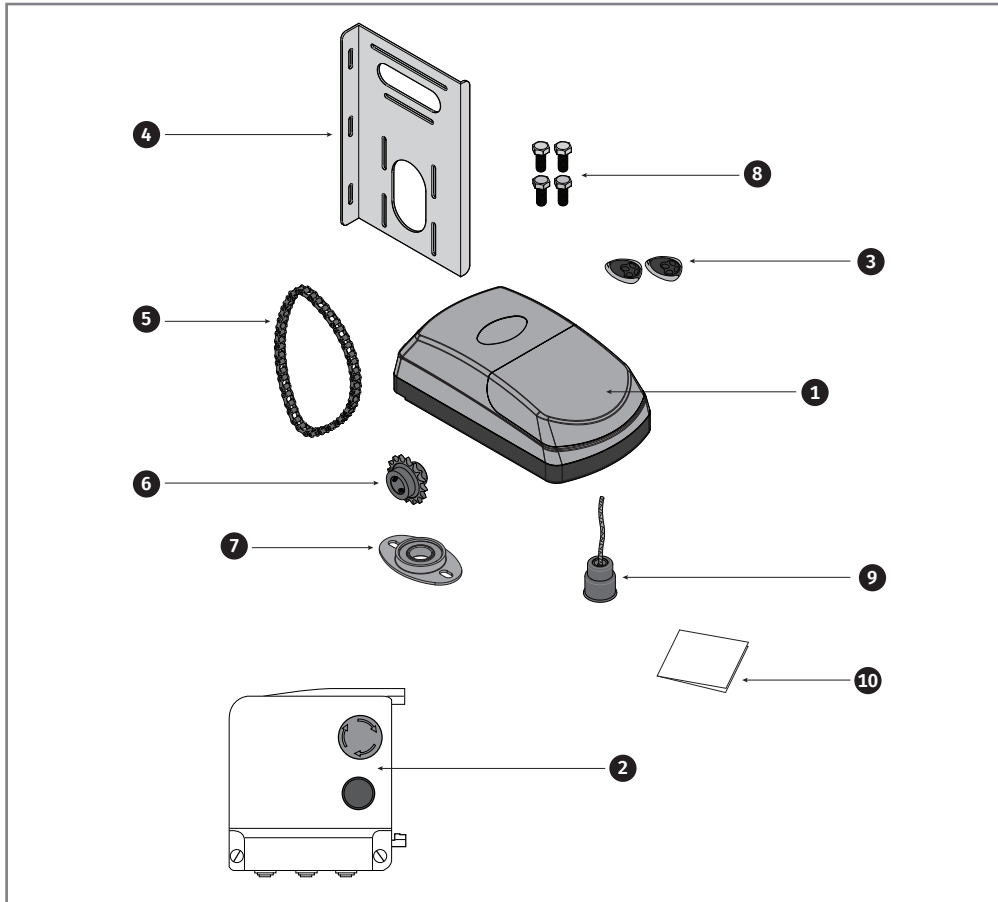
• Buttons information

02. THE PACKAGE

INSIDE THE PACKAGE

Inside the package you will find the following components:

- 1 • 01 automatism KVM25
- 2 • 01 maneuver board
- 3 • 02 four channel transmitters MX4SP
- 4 • 01 mounting plate
- 5 • 01 chain
- 6 • 01 pinion for Ø25mm shaft
- 7 • 01 bearing bracket
- 8 • 04 fixing screws
- 9 • 01 unlocking cord
- 10 • 01 user manual

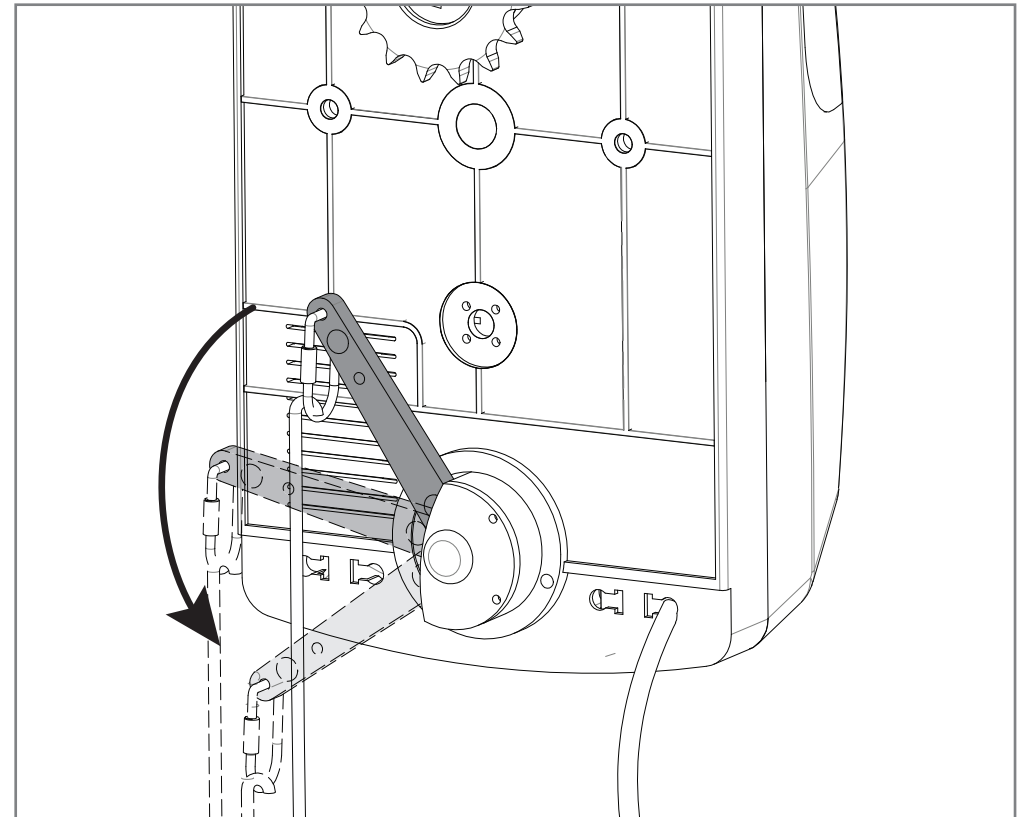


03. THE AUTOMATISM

LOCK/UNLOCK

The automatism unlock function allows the user to open and close the gate manually, without having to remove the motor from the installation site. This functionality is specially important in emergency cases and/or power cuts.

To lock or unlock the automatism just pull down the lever as shown in the following image. The lever has a spring that will bring it up to the starting point. Each time you pull the lever down and rise completely, you will unlock or lock the automatism. When pulling down, a small sound of gears engaging means that the lock/unlock was successfully performed.



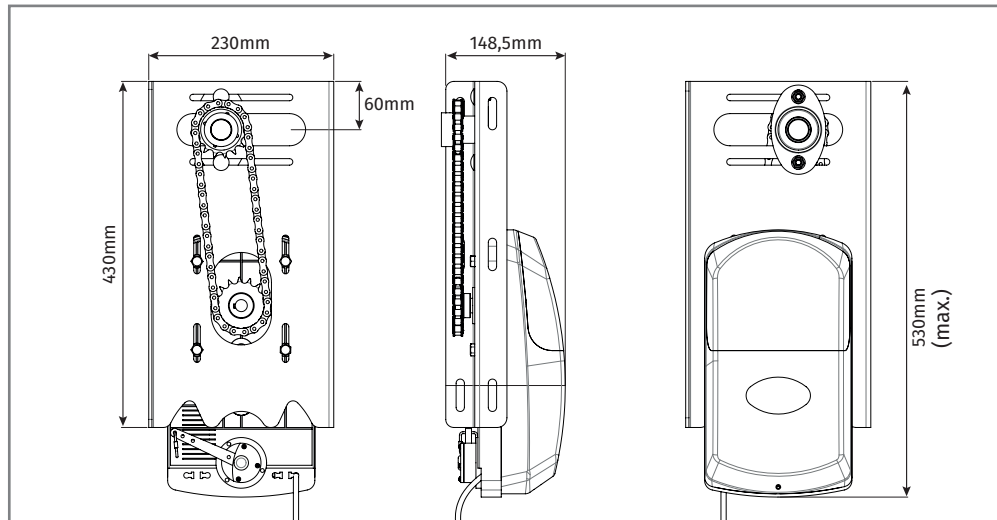
03. THE AUTOMATISM

TECHNICAL SPECIFICATIONS

KVM25 specifications are as follow:

• Power Supply	AC 230V 50/60Hz
• Power	80W
• Current	8A
• RPM	20 RPM
• Noise level	<50dB
• Force	15Nm
• Operating temperatures	-25°C to 65°C
• Transformer	100W
• Protection class	IP20
• Work Rate	30 cycles/h
• Fuses	220V 1A - 24V 10A

KVM25 dimensions are the following:



04. INSTALLATION

PRE-INSTALLATION INFO

For en riktig installasjon og en varig ytelse av KVM25, vær oppmerksom på følgende

Fpp

- Les alle trinnene i denne håndboken minst én gang, slik at du kjenner hele prosessen før

Vennligst tpf dette

- Dette utstyret kan kun installeres på leddporter med et maksimalt areal på 15m².

- Sørg for at dørens struktur er solid og i gode forhold for å kunne automatiseres.

- Pass på at leddporten ikke har noen mekaniske uregelmessigheter, de kan påvirke bilen

Mktht th

- For å sjekke om døren er i god stand for motoren som skal installeres, hev den manuelt til

Thk if thdiigd ditiftht

800, 1600d 2000fthfld dp det

Thdt ipdd itt piti

- Sjekk området rundt. Vurder nøye potensielle farer som kan forårsake fysiske

Chk thdig pCflly ltpptil d

- Sørg for at automatikken kobles til en 230V strømforsyning, beskyttet

Plk

- Vennligst sjekk om det er hensiktsmessig elektronisk beskyttelse mot kortslutning/strøm

Plhk hvis thippittti

- Vær forsiktig ved manuell betjening av kontrollkortet. Feil bruk kan skade

Bfill hvis lly ptig

- Sjekk om du har alt nødvendig materiale klart for installasjonen.

- Kontroller alle sikkerhetsinnretninger som skal installeres. Dette vil sikre at uventede ulykker ikke skjer.

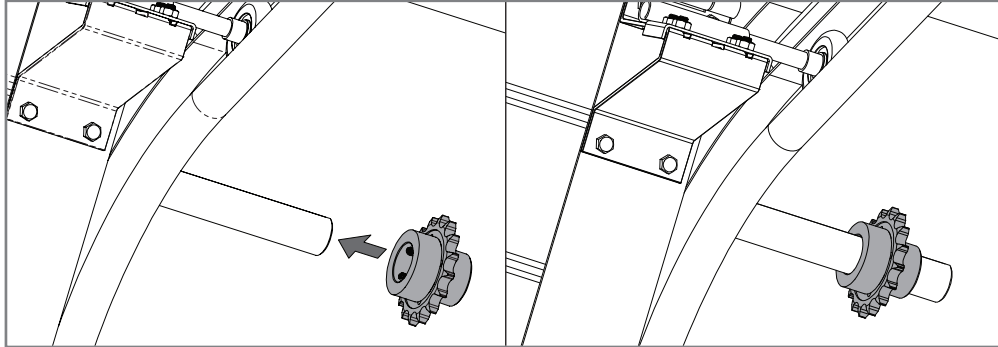


It is very important that before installation, make sure the springs are adjusted according to the door's weight!

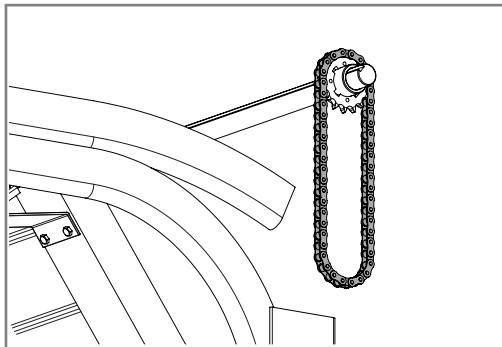
04. INSTALLATION

AUTOMATISM INSTALLATION

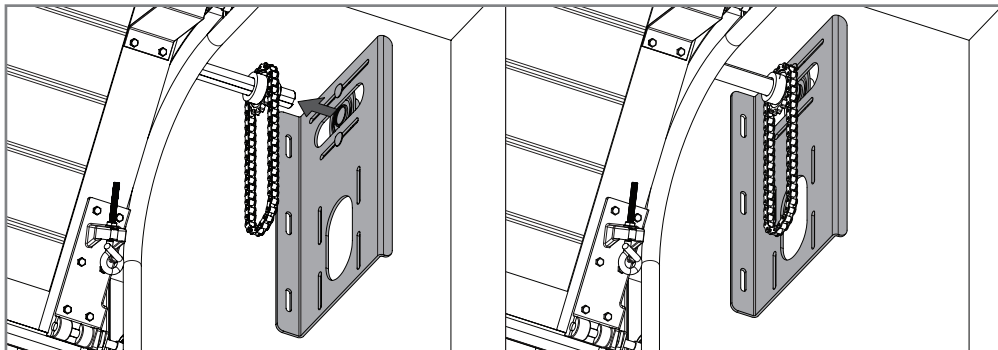
In the illustrated diagrams below and on the following page, are represented the procedures for proper installation of the motor KVM25.



01 - Place the pinion on the $\varnothing 25$ mm spring's shaft of the sectional door.



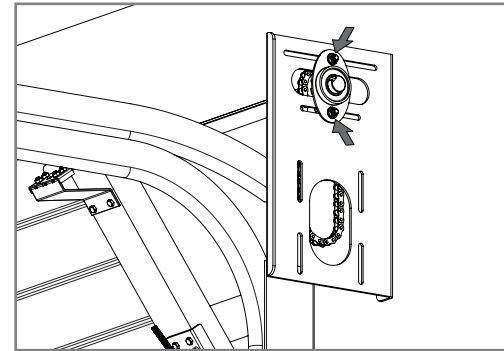
02 - Place the chain over the pinion leaving it hanged.



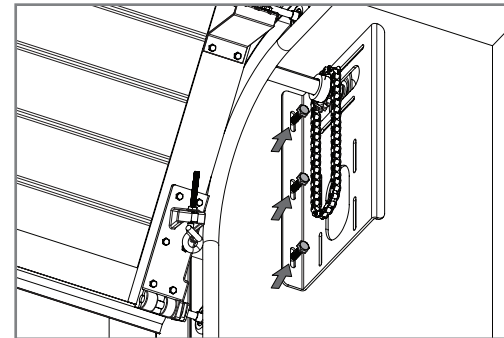
03 - Pass the $\varnothing 25$ mm shaft through the bearing on the support plate.

04. INSTALLATION

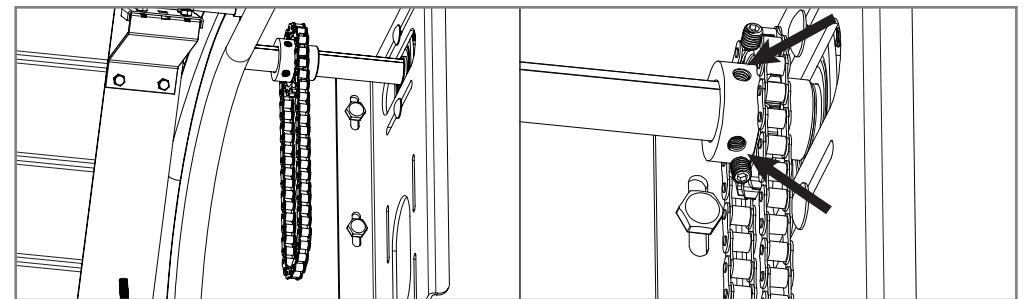
AUTOMATISM INSTALLATION



04 - Slightly loosen the bearing bracket's screws (left), to be able to move it sideways.



05 - Pull the metal plate to the wall and secure with the screws.
After fixing the plate, tighten the bearing bracket's screws back to fix it too.



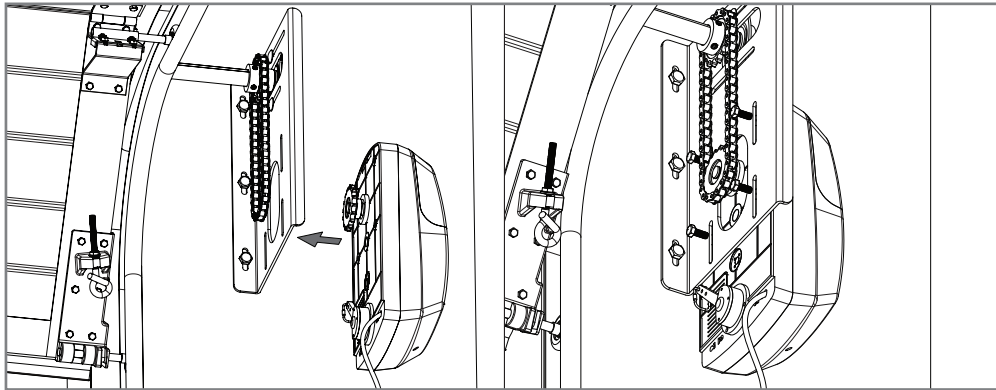
06 - Pull the pinion to the bearing and tighten the two bolts to secure the pinion to the shaft.



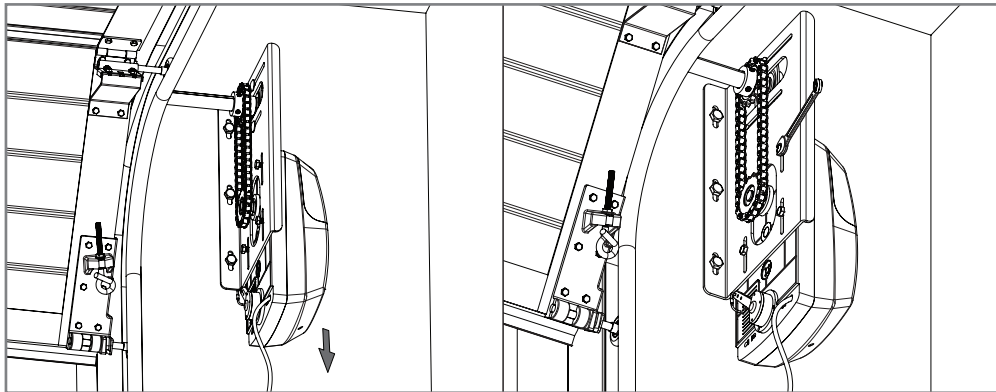
It is very important that these quotas are respected! Only in this way the correct functioning and durability of automatism can be assured!

04. INSTALLATION

AUTOMATISM INSTALLATION



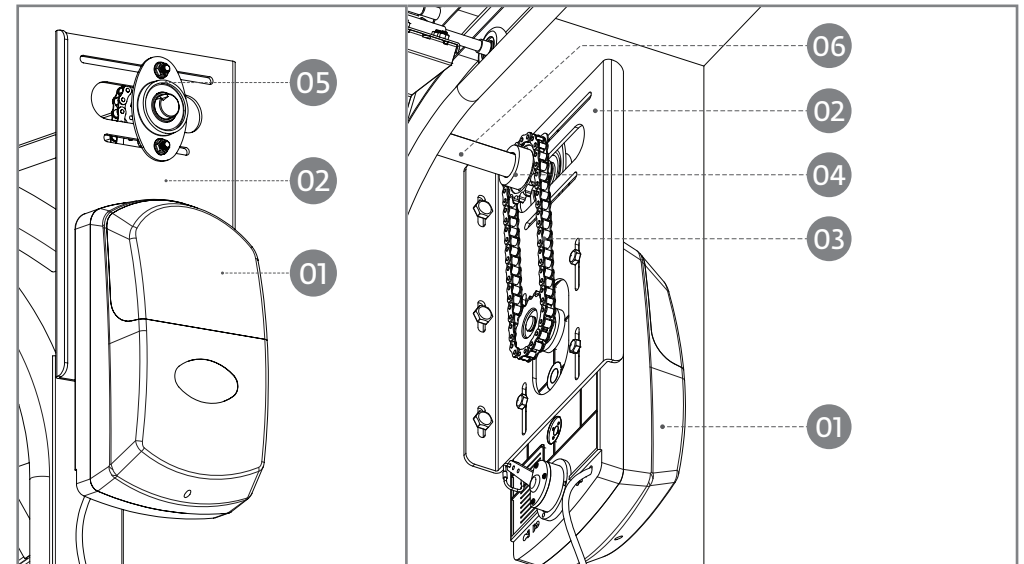
07 - Place the automatism on the support plate (left), and assemble the chain on the motor's pinion as you can see on the right image. Place the screws on the motor in order to support it on the metal plate, without tightening them completely, so that you are able to adjust the automatism.



08 - With the bolts still loose, pull the engine down in order to tighten the chain. While pulling down, fasten the 4 motor bolts to secure it on the support plate. The automatism is now installed.

04. INSTALLATION

INSTALLATION MAP

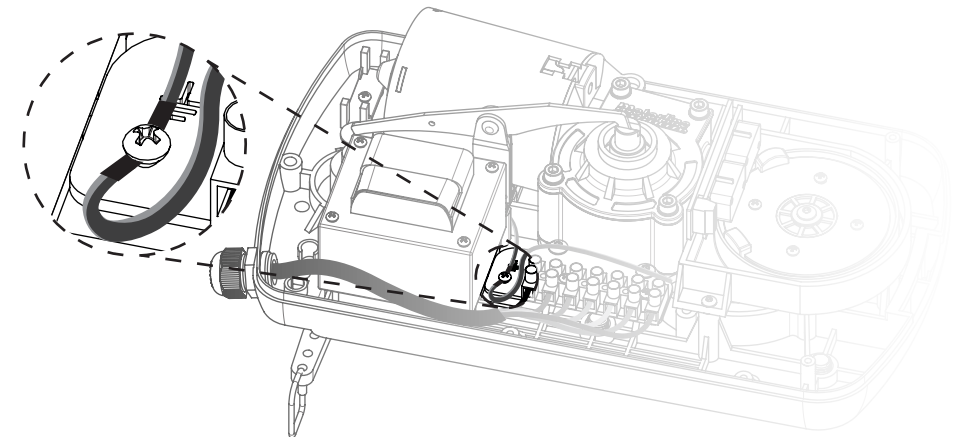


LEGEND: 01 • motor KVM25
02 • support plate
03 • chain

04 • pinion for Ø25mm shaft
05 • bearing bracket
06 • Ø25mm sectional door's shaft

GROUND WIRE CONNECTION

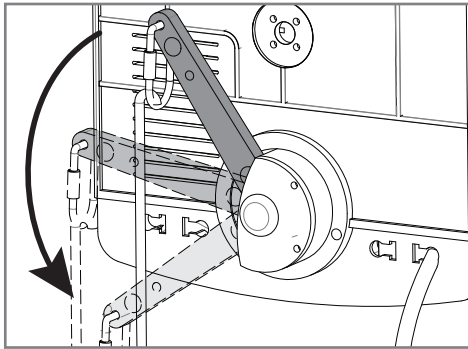
Ground wire connection area.



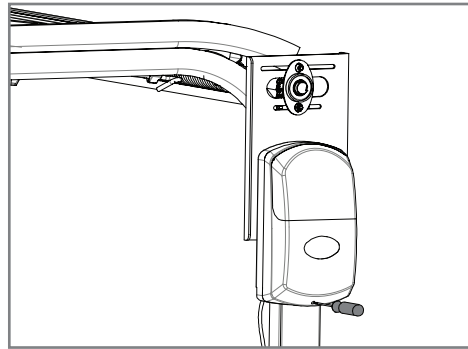
05. PROGRAMMING

PROGRAMMING LIMIT SWITCHES

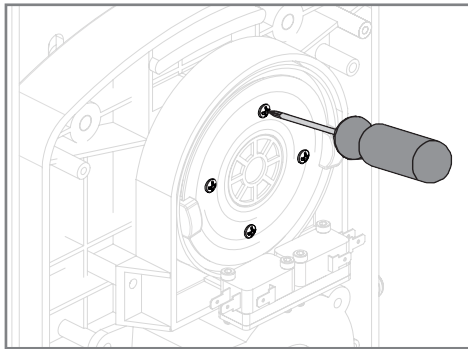
In the illustrated diagrams below and on the following page are represented the procedures for proper programming of the motor KVM25 limit switches, once installed on the gate.



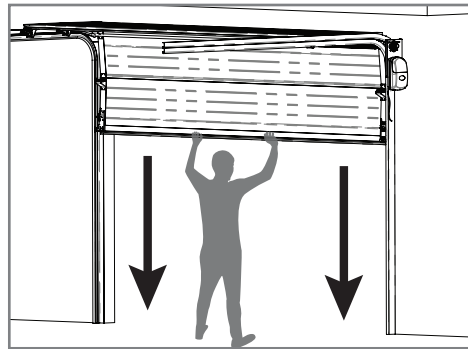
01 - Lås opp motoren ved å trekke spaken ned. Du vil høre et lite klikk når du trekker ned, og da må du la spaken gå opp.



02 - Åpne automatikkdekselet med en skrutrekker og koble motoren til en strømkilde på 230V.



03 - Løsne litt på de 4 skruene på magnetaktuatoren.



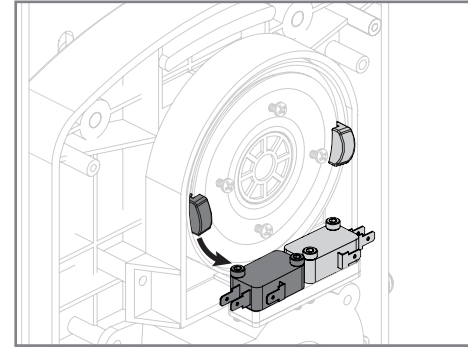
04 - Trekk døren manuelt til lukket stilling.



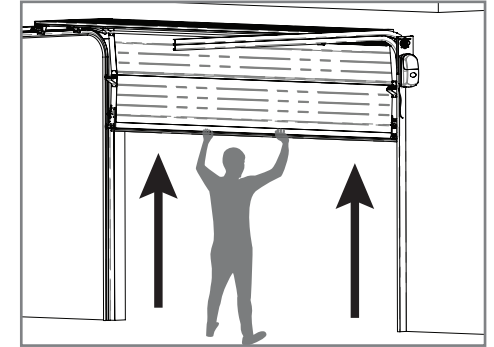
It is very important that these quotas are respected! Only in this way the correct functioning and durability of automatism can be assured!

05. PROGRAMMING

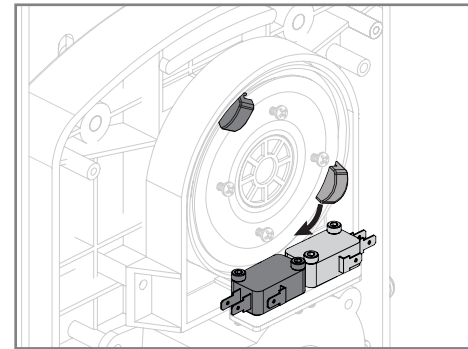
PROGRAMMING LIMIT SWITCHES



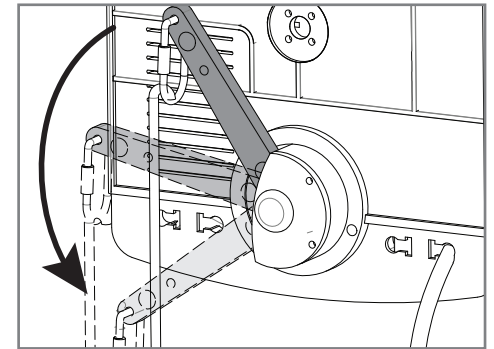
05 - Flytt plaststykket til du hører et klikk fra mikroen.



06 - Flytt døren manuelt til åpen stilling.



07 - Flytt plaststykket til du hører et klikk fra mikroen. Stram nå de 4 skruene til den magnetiske aktuatoren.



08 - Lås motoren og test dørens åpning og lukking med enten " PUSH"-knappen på kontrollkortet eller senderen. Gjenta om nødvendig de foregående trinnene, fra bilde 03, for bedre å stille inn grensebryterne.