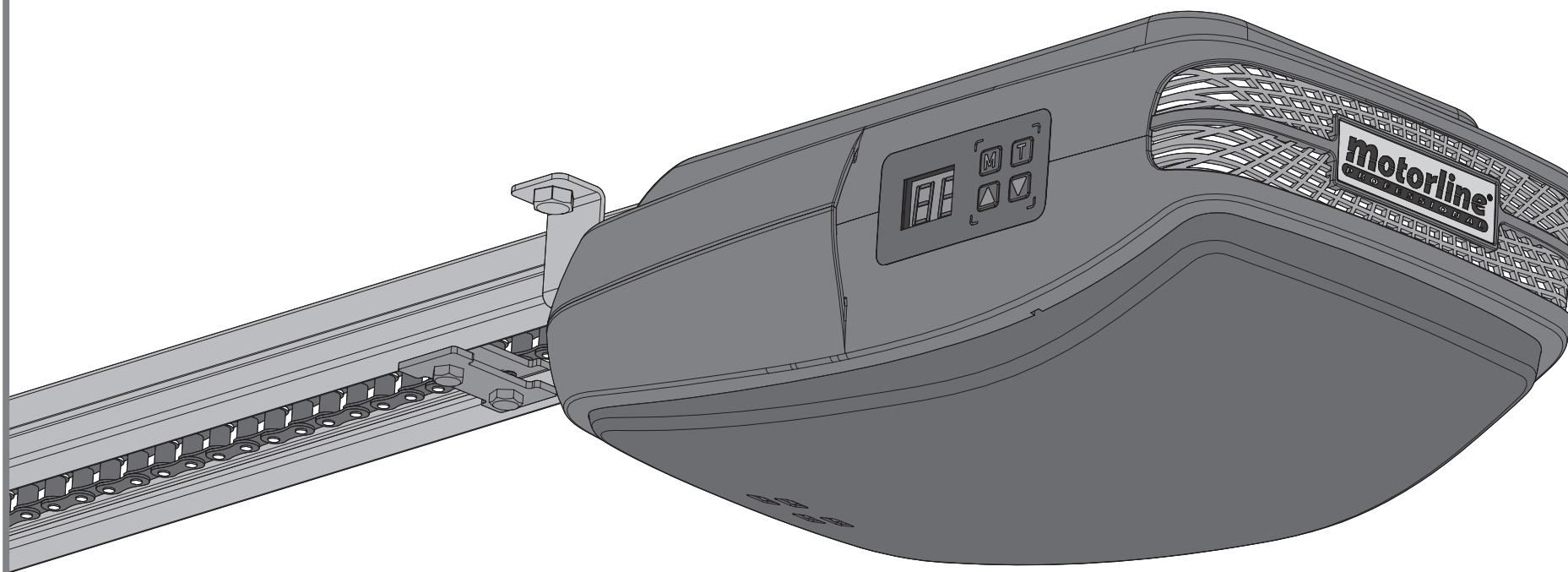




ROSSO EVO

USER'S AND INSTALLER'S MANUAL



motorline[®]
PROFESSIONAL

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01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

ATTENTION:

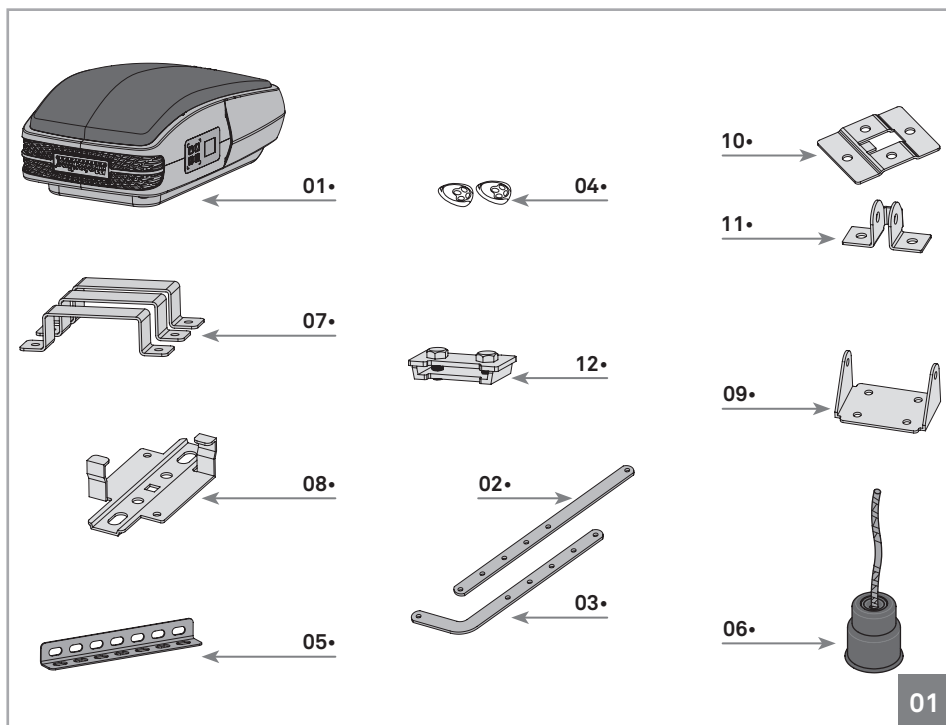
- To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product can cause physical injury and material damage.
- Keep these instructions in a safe place for future reference.
- This product was designed and produced strictly for the use indicated in this manual. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.
- ELECTROCELOS SA is not responsible for the improper use of the product, or other use than that for which it was designed.
- ELECTROCELOS SA is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur to it.
- ELECTROCELOS SA is not responsible for the safety and proper operation when using components not sold by them.
- Do not make any modifications to the operator components and / or their accessories.
- Before installation unplug the automatism from the source of power.
- The installer must inform the client how to handle the product in case of emergency and provide this manual to user.
- Keep remote controls away from children, to prevent the automated system from being activated involuntarily.
- The customer shall not, under any circumstances, attempt to repair or tune the operator. Must call qualified technician only.
- Connect the automatism to a 230V plug with ground wire.
- Operator for indoor use.

02. PACKAGE

INSIDE THE PACKAGE

Inside the package you will find the following components:

- | | |
|---|---|
| 01• 01 motor | 11• 01 reinforcement plate to gate's fixing plate |
| 02• 01 main rod | 12• 01 stopper |
| 03• 01 secondary rod | • 01 set of fixing accessories |
| 04• 02 transmitters | • 01 transmitter support |
| 05• 01 mounting bracket | |
| 06• 01 unlock string | |
| 07• 03 motor's fixing plate to the rail | |
| 08• 01 rail's fixing plate to the ceiling | |
| 09• 01 rail's fixing plate to the lintel | |
| 10• 01 gate's fixing plate | |



01

2A

EN

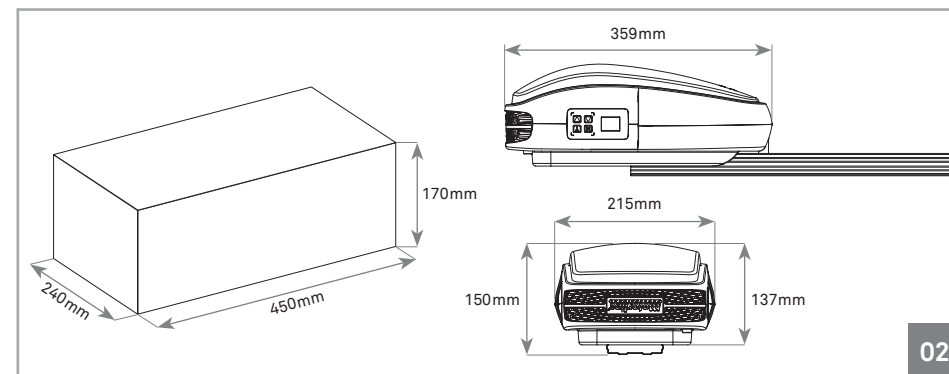
03. THE AUTOMATISM

TECHNICAL SPECIFICATIONS

The **ROSSO EVO** specifications are as follow:

	ROSSO EVO 60	ROSSO EVO 100	ROSSO EVO 120
• Power Supply	AC 230V 50/60Hz	AC 230V 50/60Hz	AC 230V 50/60Hz
• Motor's Power	DC24V - 100W	DC24V - 120W	DC24V - 160W
• Velocity	140mm /sec	140mm /sec	140mm /sec
• Noise Level	≤56dB	≤56dB	≤56dB
• Force	600N	1000N	1200N
• Operating temperature	-20°C a 70°C	-20°C a 70°C	-20°C a 70°C
• Thermal protection	120°C	120°C	120°C
• Protection grade	IP20	IP20	IP20
• Working frequency	70%	70%	70%
• Courtesy Light	3 minutes	3 minutes	3 minutes
• Maximum door area	10m ²	15m ²	18m ²
• Memory	30 transmitters	30 transmitters	30 transmitters
• Code Type	Rolling Code	Rolling Code	Rolling Code
• Radio frequency	433,92Hz	433,92Hz	433,92Hz

The automatism **ROSSO EVO** dimensions are as follows:



02

2B

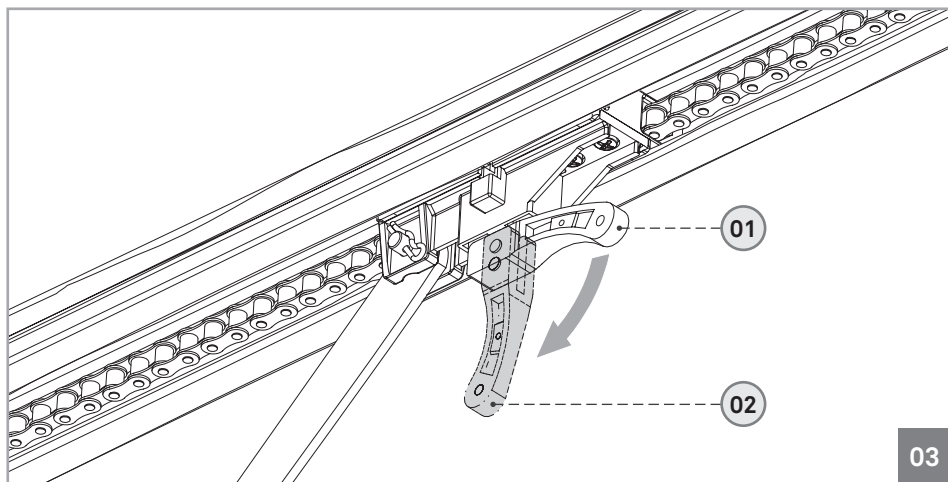
EN

03. THE AUTOMATISM

MANUAL BRAKE RELEASE

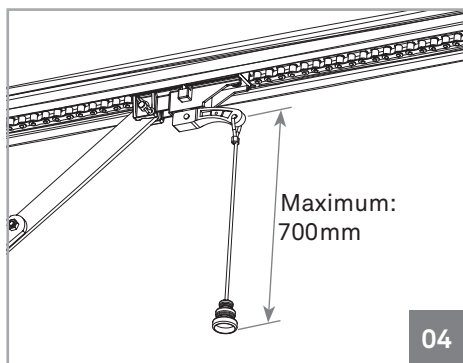
The **ROSSO EVO** unlocking system is very simple and practical to use. To do so just pull the lever down (figure 03).

To block simply pull the lever to the original position.



Position 01 • Motor locked

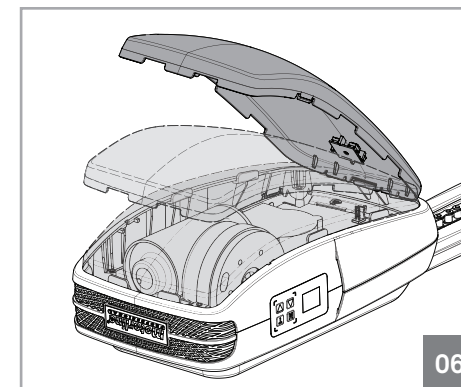
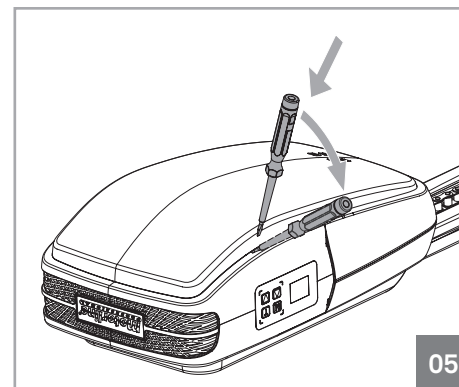
Position 02 • Motor unlocked



← Together with the automatism it is also provided a string to apply on the unlock lever, which makes it even a more practical and comfortable process.

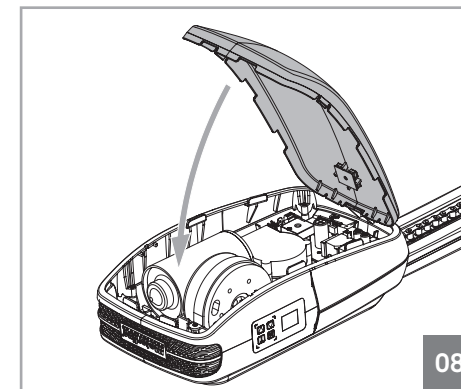
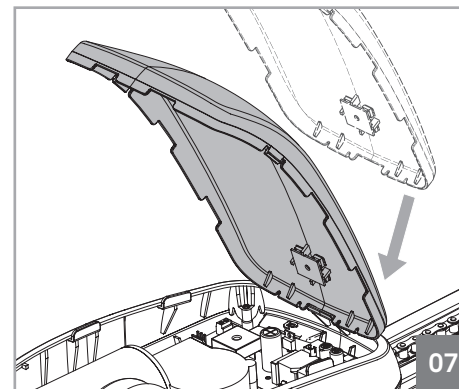
03. THE AUTOMATISM

REMOVING TOP COVER



To remove the cover simply insert a small screwdriver into the side holes, and create a leverage effect to release the indents fittings between the top cover and the body. Then just remove the cover by lifting it.

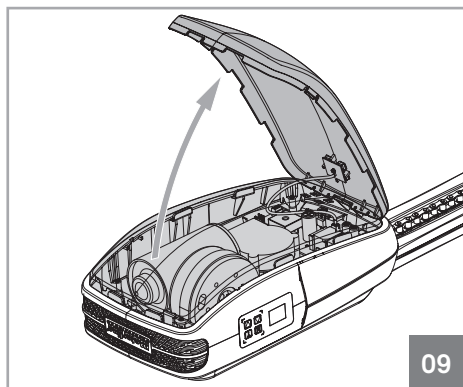
REPLACE TOP COVER



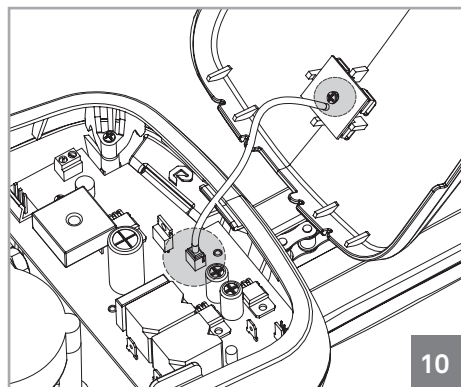
To replace the cover you must first fit the back as shown in the figure 07. Then simply turn down the cover and fit the front pressing down. The fittings will automatically secure the cover.

03. THE AUTOMATISM

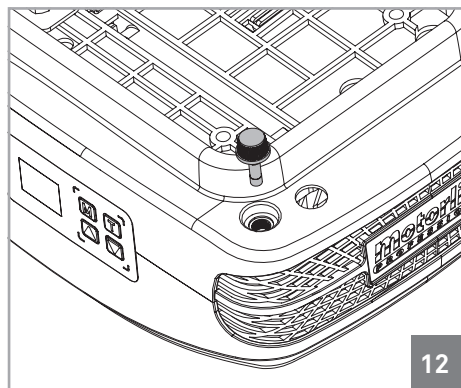
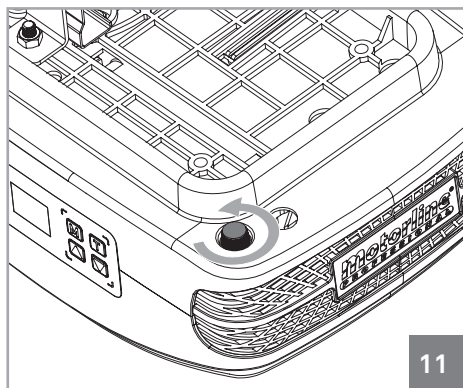
CHANGING COURTESY LEDS



- To replace the LED board you must open the top cover and detach the wire of the LED from the control board. Loosen the screw which secures the LED board to the top cover and remove it. Now just put the new LED board, screw it, fit the wire in the control board and close back the cover on the motor.



CHANGING FUSE



- To replace the fuse, first loosen it as visible in the image 11. Then just pull to remove it (image 12). Repeat the same steps in reverse order to put a new fuse. The operator uses a 250V 2,5A.

04. INSTALLATION

INFORMATION PRE-INSTALLATION

For a correct operation of **ROSSO EVO**, you must take into account the following parameters before the installation:

- Read all steps on this manual at least once in order to get acquainted with the installation and configuration process.
- Make sure the door's structure is solid and appropriate to be automated.
- Verify that the sectional door has no technical defects, such as friction points / prison, that may jeopardize the automatism durability.
- Make sure the door is in good condition to install the motor. To do so, raise it manually to 800mm, 1600mm and 2000mm from the ground. Check if the door remains suspended in these positions or descending. If the door starts to go up or down, it means that the springs are not well calibrated.
- Check the surroundings. Carefully evaluate any hazards that may cause material damage, possible insects contact, infiltration, among others.
- Make sure that the automatism will be connected to a 230V, properly protected with Ground Wire.
- Make sure there is adequate protection against short-circuits / power surges and earthed in the Electrical Box.
- Be careful when handling directly the control board. Improper handling can damage some electrical components.
- Make sure you have all the necessary material prepared for installation.
- Evaluate the safety devices to be installed. This will ensure that unexpected accidents do not happen.



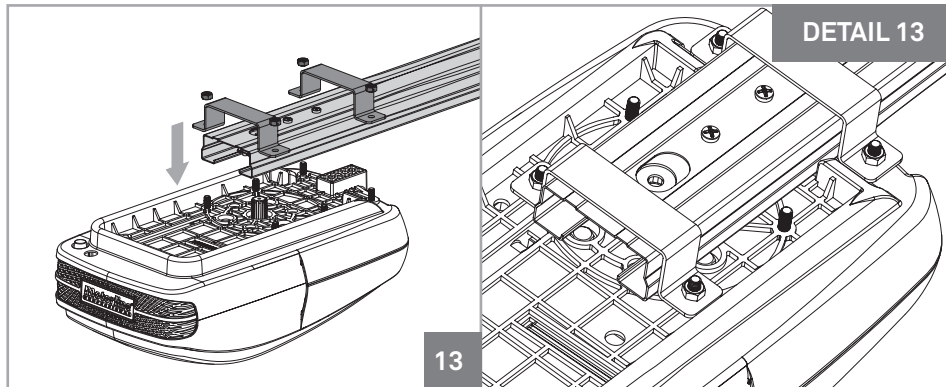
It is very important that these precautions are respected!
Only in this way the correct functioning and automatism durability can be achieved!

04. INSTALLATION

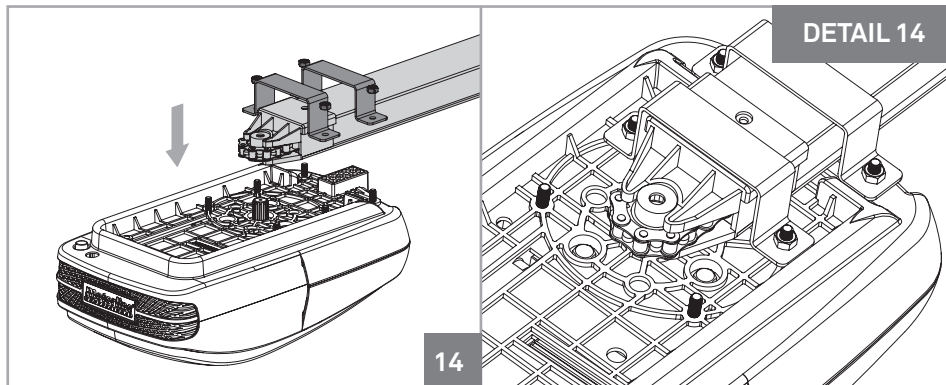
FIXING THE MOTOR IN RAILS



With standard rails, you can only automate doors with maximum height of 2400mm.



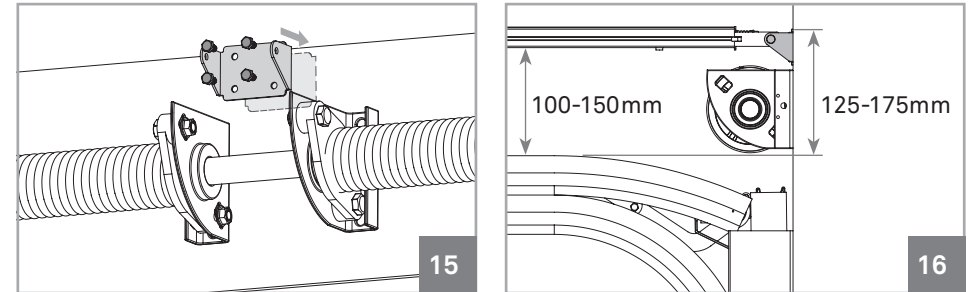
01 • The steel rail and automatism attachment must be made using the plates and M6 nuts as shown above. Fasten 4 screws, leaving the two in the middle free.



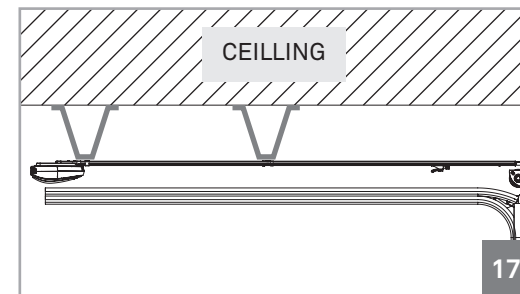
02 • The aluminum rail and automatism attachment must be made using the plates and M6 nuts and as shown above. Tighten 4 screws, leaving the two in the front free.

04. INSTALLATION

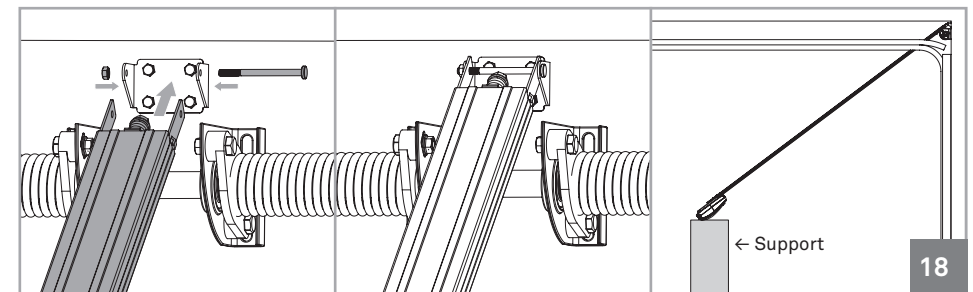
AUTOMATISM INSTALLATION



01 • Attach the rail's support plate to the lintel, as visible in the image 15. In the image 16 it can be seen the distance to keep between the gate rail and support plate's upper part (125-175mm).



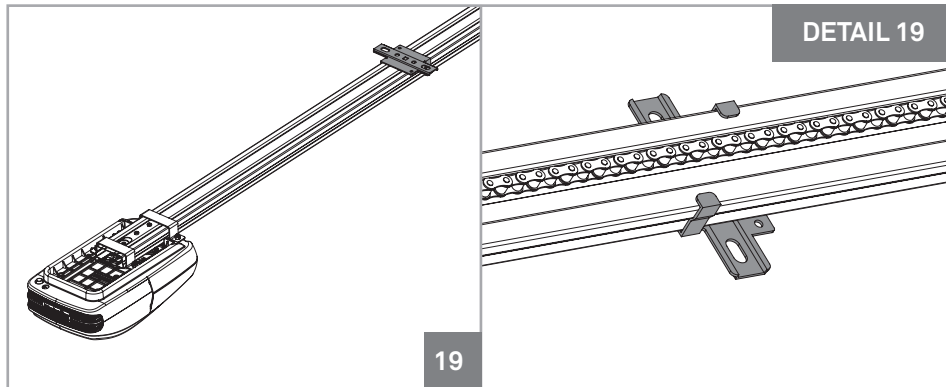
← **Note** • If you are unable to fix the rail to the ceiling for not respecting the measures above, there should be created a solid structure to be able to fix the motor in correct measurements. This structure may be fixed to the ceiling as a visible on the image 17.



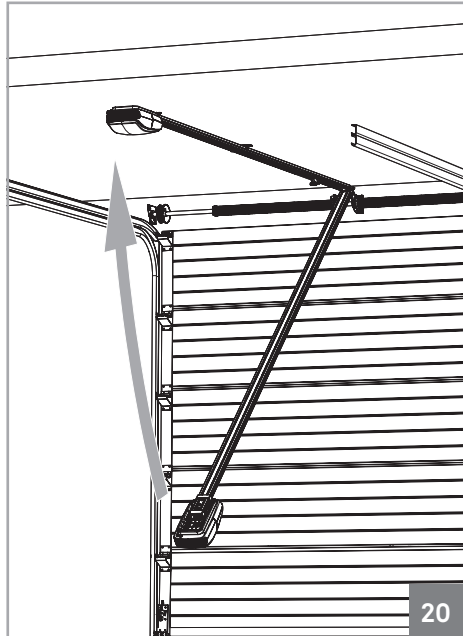
02 • Fasten the rail in the fixation plate already attached. To facilitate the task, you can do it with the rail inclined (motor on the floor / support) which facilitates the installation since you only have to handle the area of rail to be fixed.

04. INSTALLATION

AUTOMATISM INSTALLATION

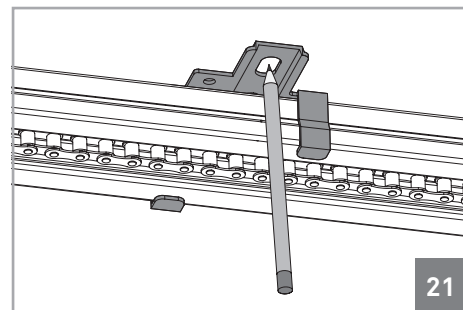


03 • Place ceiling rail 's fixation plate roughly halfway through the steel rail as visible in the pictures above.



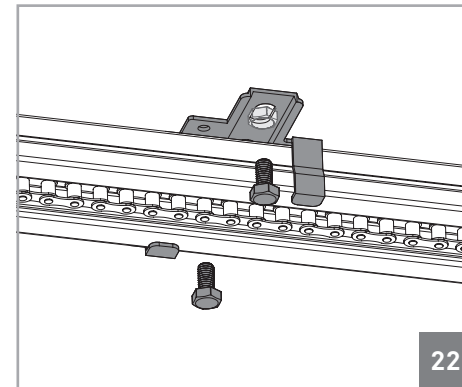
04 • Raise up the motor until the rail is levelled horizontally. If necessary, you should create a support structure to a solid surface as shown on the previous page, so that the rail stays horizontally aligned (picture 17).

Mark the holes in the ceiling plate and / or structure and make the necessary holes to fix it.

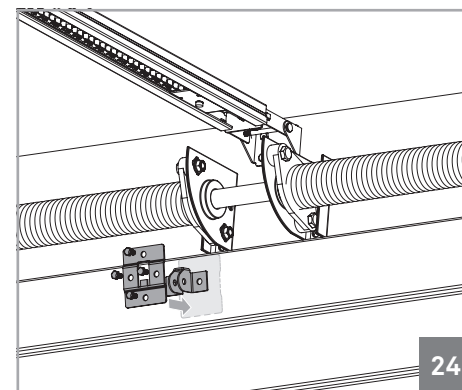
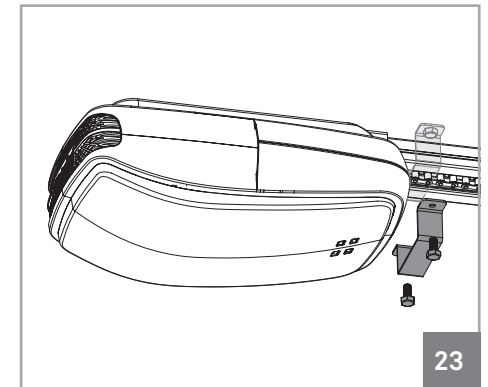


04. INSTALLATION

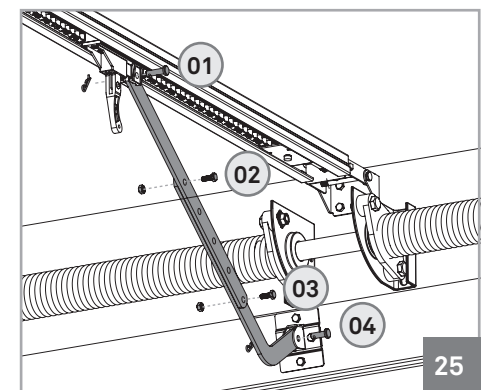
AUTOMATISM INSTALLATION



05 • After rising the rail and mark the holes, you should fix the plate with screws. After that, you should use bracket to reinforce the attachment, this time near the motor (image 23).



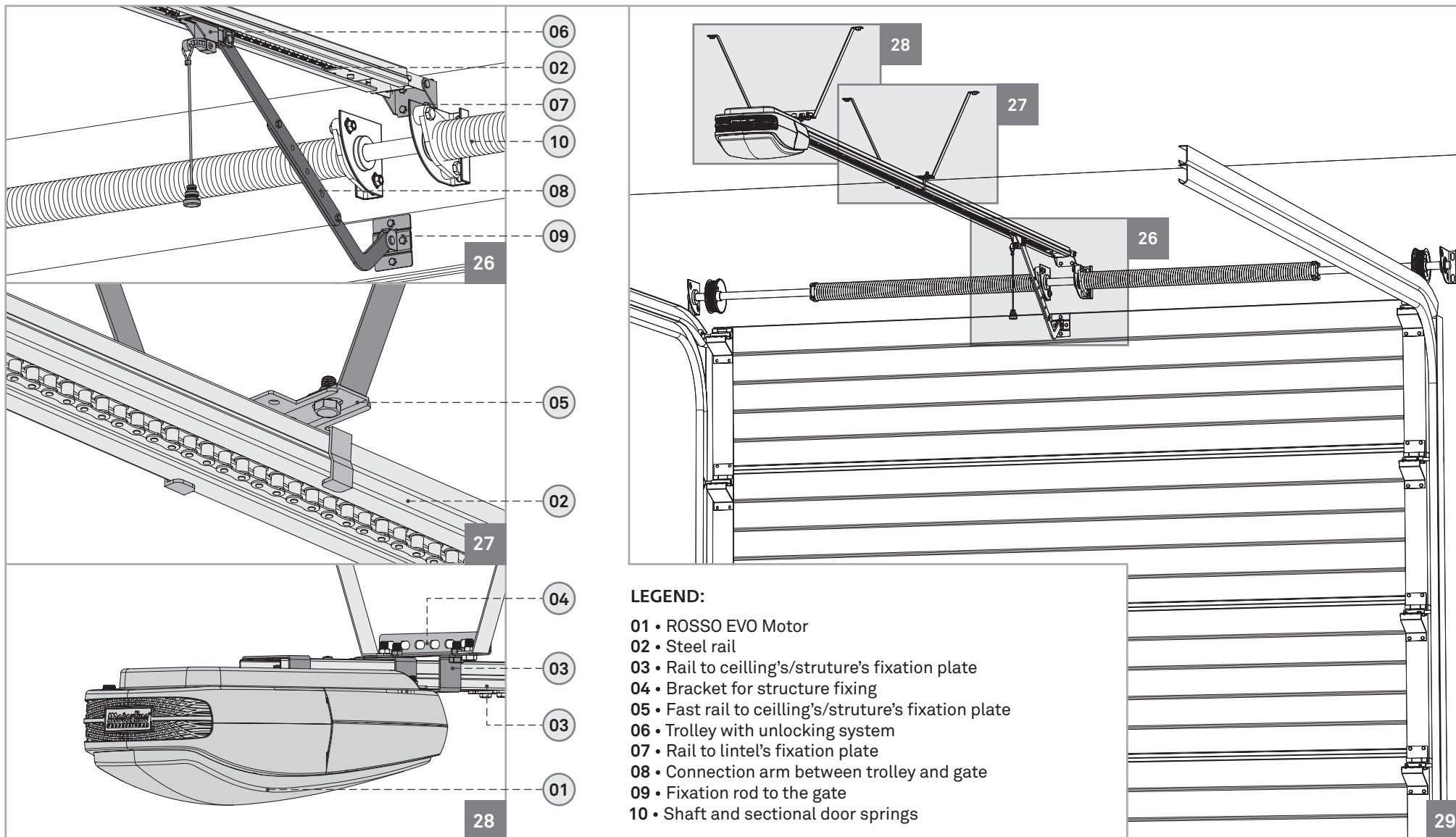
06 • Attach the plates to the top of the door panel. The rods must be centered horizontally with the panel so that it stays aligned with the rail. It should also be fixed as higher as possible (picture 24).



07 • Now attach the two connecting rods between the trolley and the panel's upper plate. Use the screws and M8 nuts to tighten 2 rods together (02 and 03), and 2 pins with pegs to fix them on the trolley and the gate (01 and 04).

04. INSTALLATION

INSTALLATION MAP



05. PROGRAMMING

LEGEND



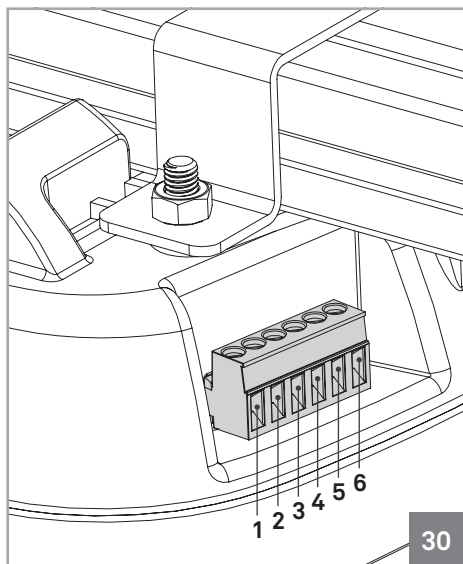
Legend:

- 00** • Display
- M** • Main Menu
- T** • Programming transmitters
- ▲ • Up
- ▼ • Down

When you turn the power on, the LCD displays a countdown from **99** to **11**, and the courtesy lamp stays on for 2 seconds. When the motor is in standby, the display shows the message **00**.

When the motor is opening, the display always shows the message **0P**.
When the motor is closing, the display always shows the message **0B**.

Note: If you connect a signaling lamp, this will blink during any gate's movement cycle.



Conector Links:

- 1 • Pedestrian Gate (NC contact)
- 2 • PB (contact NO)
- 3 • PE (contact NC)
- 4 • GND (common)
- 5 • +24V
- 6 • Extern Lamp (max. 24V 5W)

05. PROGRAMMING

MENU FUNCTIONS

The control board has a main menu which allows access to all the different settings of the automatism.

- P1** • Programming opening and closing courses
- P2** • Programming the automatism force level
- P3** • Enable/disable safety photocells
- P4** • Programming the self-closing feature
- P5** • Enable/disable condominium function
- P6** • Programming maintenance warnings
- P7** • Programming transmitters using already configured transmitters
- P8** • Counting of maneuvers
- P9** • Enable/disable the service door



Start all the programs from the stand-by mode (--)!

All the menu configuration instruction in this manual have been performed using as starting point the stand-by mode (--).

Begin programming the P1 menu with the gate closed, since the first maneuver configuration will be the opening.

00 • Programming opening and closing courses

- 01** • Press the **M** key for 4 seconds to enter the programming menu.
 - 02** • The display will show P1 and press the M key for 2sec to enter the submenu.
 - 03** • The display will show OP and you can now set the opening limit using the ▲ or ▼ keys to adjust it.
 - 04** • Press the M key for 2sec to confirm the opened position.
 - 05** • The display will show CL and you can now configure the closing limit using the same ▲ or ▼ keys.
 - 06** • Press the M button for 2sec to confirm the closed position. The control board saves the configuration and exits the programming mode.
- The LEDs light up for 2sec and the gate starts to open and close automatically to the programmed limits showing the message OP during the opening and CL during the closing. When it finishes closing, the control board will exit to the stand-by mode (--).



If it stays more than **20sec** without pressing any key, the control board will exit every programming and automatically go to stand-by mode (--) without saving any action.

05. PROGRAMMING

MENU FUNCTIONS

P2 • Programming the automatism force level

- 01 • Press the **M** key for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P2**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show a value between **F1** and **F9**, which identifies the strength level when the motor is configured. Use the **▲** or **▼** keys to select the desired option, being **F1** the minimum force and **F9** the maximum.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Nota • The control board comes with the **F4** level configured from the factory.

P3 • Enable/disable safety photocells

- 01 • Press the **M** button for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P3**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show the value **H0** or **H1**, which identifies the option in which the central is configured. Use the **▲** or **▼** keys to select the desired option.
- H0** disables the use of photocells and **H1** activates it.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Functionality • When the use of photocells is active and some obstacle cross them when the door is closing, the door will reverse direction beginning to open.

Note • The use of photocells comes disabled by the factory (**H0**).

Start all programs from the stand-by mode (–)



If it stays more than 20sec without pressing any key, the controlboard will exit the state and will automatically go to stand-by mode without saving any action.

05. PROGRAMMING

MENU FUNCTIONS

P4 • Programming the self-closing feature

- 01 • Press the **M** button for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P4**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show a value between **00** and **90**, which identifies the time in seconds that the engine is on hold since the opening ends until start automatic closing. Use the **▲** or **▼** buttons to select the desired option.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Note • The option **00** disables the automatic closing, so the gate will only close if it receives an order from a configured device.
Any other option sets the automatic closing time, being the minimum 10 seconds (option 10) and the maximum 90 seconds (option 90).

P5 • Enable/disable function condominium

- 01 • Press the **M** button for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P5**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show the value **H0** or **H1**, which identifies the option in which the central is configured. Use the **▲** or **▼** buttons to select the desired option.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Functionality • This function causes the central to ignore all orders for the opening course sent by configured devices.

- If you press the transmitter during the opening, the order is rejected and it continues to open
- If you press with the door completely open, it will begin to close.
- If you press during closing, the gate reverses direction and starts to open.

When disabled, you can control the opening or closing of the gate whenever you want, and their behavior is open-stop-close-stop-open (...) by each time you press the transmitter.



Note • The **P4** and **P5** functions, when activated, prevent the gate to stay open. This way the gate will always open completely, starting the closure after the pause time defined in **P4**.

05. PROGRAMMING

MENU FUNCTIONS

P8 • Programming maintenance warnings

- 01 • Press the **M** key for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P6**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show a value between 00 and 45, which identifies the thousands of maneuvers to which the motor will emit a warning maintenance light.
Use the **▲** or **▼** keys to put on the desired option.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Functionality • This notice serves to schedule revisions to the automatism, gate or springs after a certain number of complete maneuvers (open-stop-close-stop). When the automatismo completes the number of maneuvers defined by this menu, the LEDs will blink during 2 minutes after every maneuver, to emit the maintenance warning.

Note • The option **00** disables the maintenance warning. Any other option defines thousands of operations, the lowest value is 5000 operations (option **05**) and the maximum is 45000 operations (option **45**).
Whenever you want to reconfigure this option, you must perform two configurations. First, set the option to **00** to make a **RESET** to the counting maneuvers. After that, make a new one setting the new desired option. The central will, from this moment on, start counting maneuvers to emit the maintenance warning.

P8 • Programming transmitters using already configured transmitters

- 01 • Press the **M** key for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P7**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show the value **L0** or **L1**, which identifies the option in which the central is configured. Use the **▲** or **▼** keys to put on the desired option.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Functionality • This menu allows you to enable or disable the possibility to program a new transmitter through one already configured (see page 11.A).
L0 means that this functionality is disabled, and **L1** means that is enabled.

05. PROGRAMMING

MENU FUNCTIONS

P8 • Counting maneuvers

- 01 • Press the **M** key for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P8**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show three numbers, each one for 2 seconds separated by intervals of 1 second between them.
After this the control board will automatically exit to standby mode (--).

Functionality • This function serves only to show all completed maneuvers performed by the automatism (open-stop-close-stop).

Example: If when entering the **P8** submenu the display first show n°**15**, then n°**65** and finally n°**22**, means that a total of **156522** complete maneuvers have already been done.

RESET through the menu **P6**: To restart maneuver counting, go to **P6** submenu, and while the display shows any of the options in this submenu, press the **▲** and **▼** keys simultaneously for 10 seconds. The control board will automatically exit to standby mode and the **RESET** to the **P8** menu is complete.

P8 • Service door / Photocells for side door open

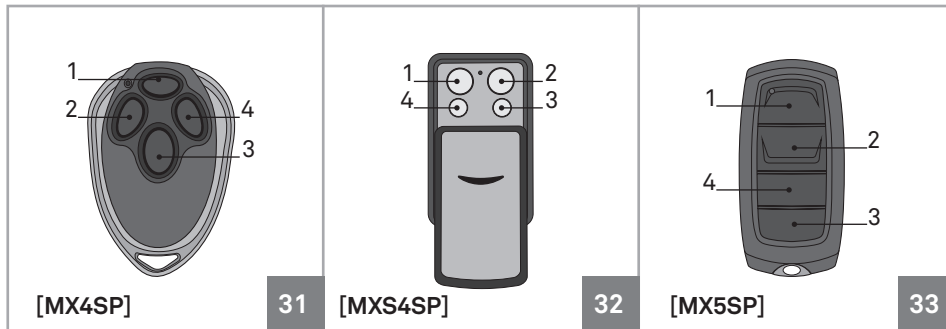
- 01 • Press the **M** key for 4 seconds to enter the programming menu.
- 02 • The display will show **P1** and press **▲** and **▼** keys repeatedly until it shows **P9**.
- 03 • Press the **M** key once to access this submenu.
- 04 • The display will show the value **E0** or **E1**, which identifies the option in which the central is configured. Use the **▲** or **▼** keys to put on the desired option.
- 05 • Press the **M** key once to save this option.
- 06 • The control board will exit to standby mode (--) and the configuration is complete.

Functionality • The option **E0** disables the use of this functionality while the **E1** option activates it.

When the function is activated, the gate only opens/closes if the service door is closed or if the side sectional door's photocells are not interrupted.
With the service door opened, the control board rejects any opening or closing order. If the service door opens during any gate maneuver, the gate stops immediately. If the photocells are interrupted during a closing maneuver, the automatism will stop immediately, but if it is during an opening maneuver it will stop and invert (close) for 1 second.

05. PROGRAMMING

PROGRAMMING TRANSMITTERS



• Standard configuration using the T key on the display

01 • In stand-by mode (--) press the T key until the display shows SU.

02 • Press one time the transmitter's desired key to configure until the engine starts moving.

Note • Repeat these steps whenever you want to configure new transmitters.

• Configuration through already configured transmitters

Since there is already configured transmitter, you can use it to open the control board's memory by distance in order to configure new transmitters.

This allows easy configuration without requiring direct access to the engine.

01 • In Stand-By mode (--) press 2 and 3 keys from an already configured transmitter until the courtesy LEDs start to blink. Now release the pressed buttons.

02 • Press the new transmitter's desired key to configure until the automatism starts moving.

Note .1 • Repeat these steps whenever you want to configure new transmitters.

Note .2 • This feature can be enabled or disabled via the P7 menu (see pag 10.A).

• Delete all configured transmitters

01 • In stand-by mode (--) press the T key for 10sec until the display shows dl.

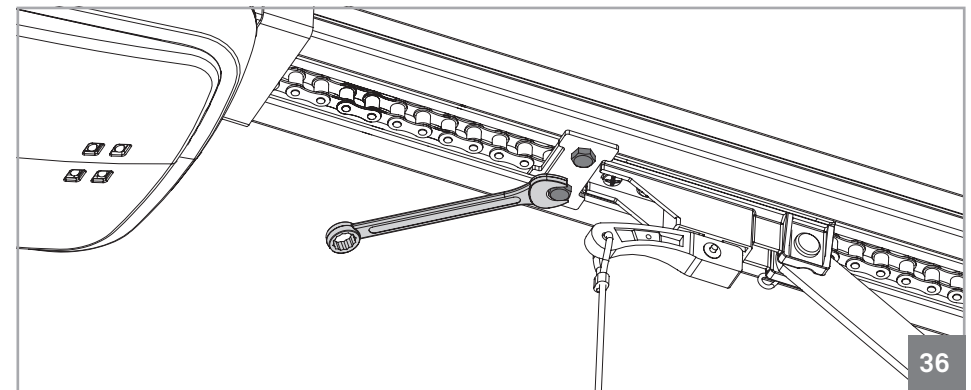
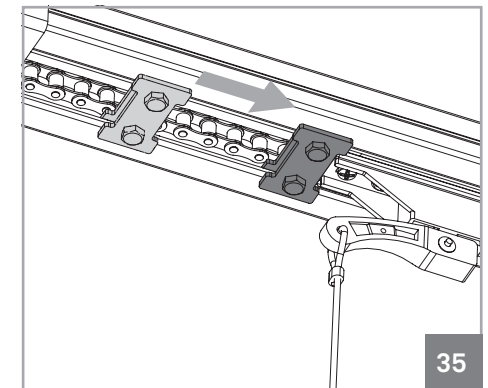
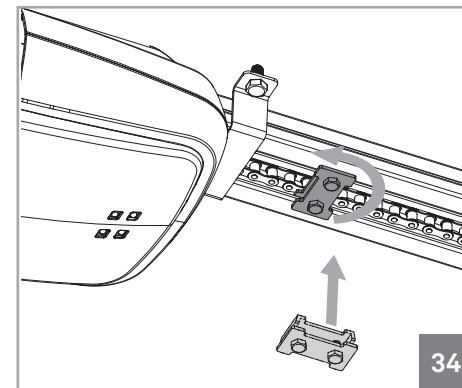


The control board has a maximum capacity of 30 transmitters and only accepts Motorline Rolling Code transmitters!

06. POST-INSTALLATION

STOPPER AT THE OPENING

The automatism needs a stopper in the opening and closing to always control the courses. In closing maneuvers, the ground will be the stopper for the gate, but in the opening maneuvers it is necessary to create a stopper on the steel rail, to ensure that the trolley always stop in the correct place.



• To install the opening stopper just apply it on the rail, as seen in Figure 34.

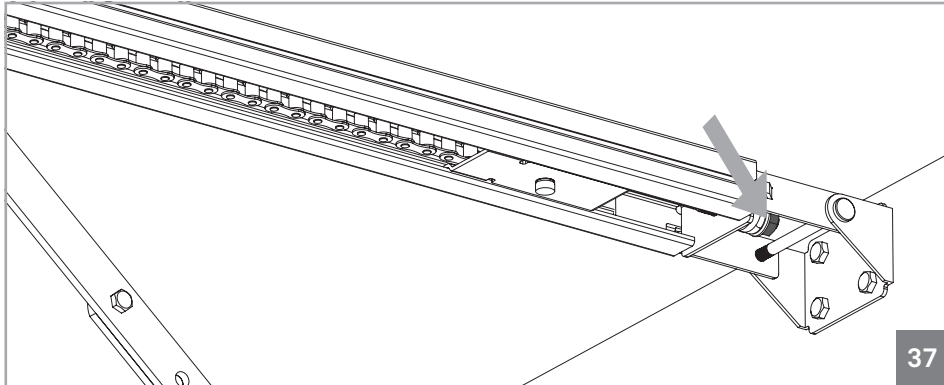
The stopper must have a metal plate out of the rail and other on the inside, so when you fasten it, this is secure in the pipeline.

• **With the door completely open**, push the stopper until it touches the trolley (35).

• Fasten the two screws to hold the stopper in that exact position (36).

06. POST-INSTALLATION

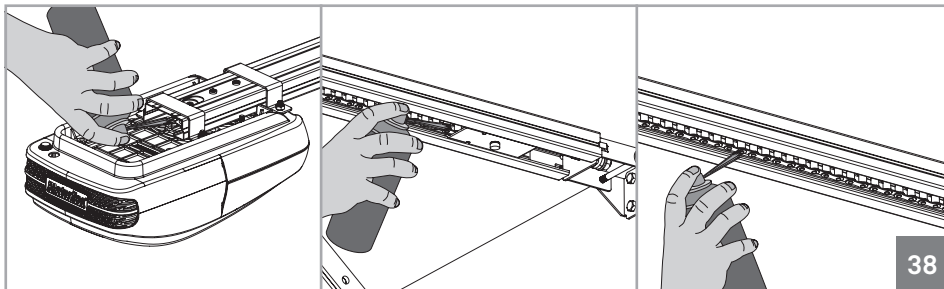
STRETCH RAIL'S CHAIN



For a correct automatism function, the chain has to be very well adjusted. For that, you just need to tighten or loosen the shadowed nut in the above picture with a wrench key, which will stretch or relieve the chain. The chain can't be too much stretched, or it will get too stuck and damage the gear and the motor, nor too loose to the point of creating a sag in the middle and come out of the rail.

Note • The spring tensioner should never get fully compressed, because it means that it is on its maximum tension!

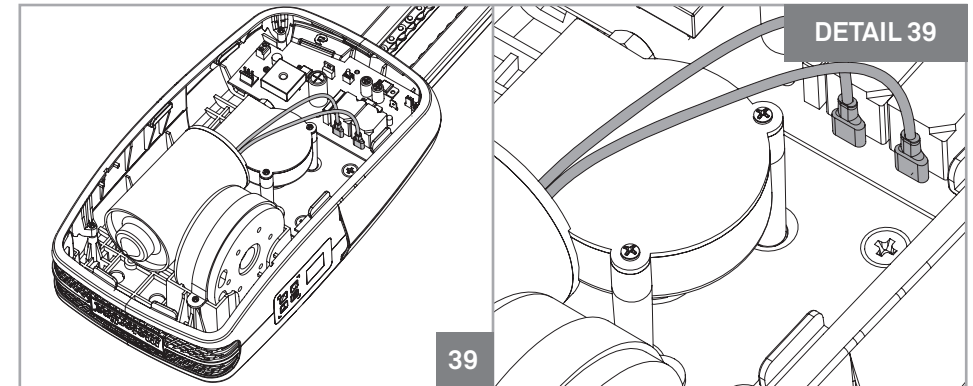
MAINTENANCE



The only maintenance required is lubricating the automatism and rail motion axes. The pinions at both ends of the rails as well as their supporting bearings and chain should be lubricated at least once every year.

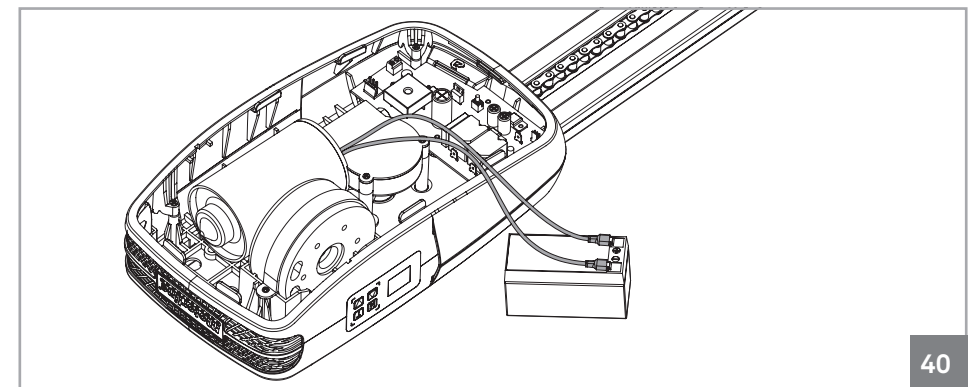
07. DIAGNOSIS

CONNECT ENGINE TO 24V BATTERY



In case of automatism failure or malfunction, you must detect the fail component (motor or central). To do that, you should test the motor directly connected to a **12/24V DC** power source, in order to understand if this works.

Just disconnect the two motor cables (shaded in the image 39) which connect to the central and connect them directly to a **12/24V DC** battery as visible in the image 40.




Motor cables have no specific way of connection. The only difference is that if you connect the motor in one way, it will rotate in one direction, and if you connect the wires in the opposite it will rotate in the other direction.

08. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS

INSTRUCTIONS FOR TECHNICAL PERSONNEL

Anomaly	Procedure	Actions	Procedure II	Discovering the origin of the problem			
• Motor does not work	• Verify that you have connected to 230V power to the automa- tion and if the fuse is working properly.	• Still not working	• Consult a MOTORLINE qualified technician.	1 • Remove the top cover of the engine; 2 • Measure the 24V transformer’s output to detect the location of the malfunction;	A) Has 24V: 1 • Make sure the central is supplying the motor to detect whether the fault is in the engine or in the central. Replace the damaged component or send to	Motorline facilities for diagnosis and repair.	on the input, the transformer is the problem. If not, the problem is the fuse, electrical cables or electrical current itself. Check all systems.
	• Make sure the pe- destrian service door is securely closed.	• Still not working	• Consult a MOTORLINE qualified technician.	1 • Give a start on the transmitter to open and check the LEDs behavior.	2 • If it blinks twice, then the connection with the photocells is having problems. Check all the photocells circuit connection.	B) Doesn’t have 24V: 1 • Check the 230V transformer input. If you can measure 230V 3 • If it flashes three times, then the service door connection is having problems. Check all the door’s connection circuit.	
• Motor does not move but makes noise	• Unlock the engine and move the gate manually to check for mechanical problems on the gate.	• Encountered any problems?	• Consult an gate’s techni- cian.	1 • Check all the motion axes and the movement systems associated to the gate and the automatism (rails,pulleys, bolts, hinges, etc.) to find out he problem. Also make sure the springs are in good condition and are able to withstand the gate.			
		• The gate moves easily?	• Consult a MOTORLINE qualified technician.	1 • Turn off the central’s motor and test it directly connected to a 24V battery to find the malfunction (see page 12.B)	2 • If the engine operate, the problem is in the central. Pull it out and send it to the MOTORLINE technical services for diagnosis;	3 • If the motor does not work, remove it and send it to the MOTORLINE technical services for diagnosis.	
• Motor opens but does not close	1 • Check if there is any obstacle in front of the photocells; 2 • Chech if the pho- tocells are working. Put your hand in front of their infrared link, and check if the relay makes noise. 3 • Check if any of the gate’s control devices (key selector, push button, video intercom, etc.) are locked and sending permanent sign;	• Gate has opened but did not close.	• Consult a MOTORLINE qualified technician.	1 • Make sure the display and the courtesy LEDs are connected and to see if it has power; 2 • Check if the photocells have power supply from the control board. If not, check the fuse n° FUSE FT (see page 14); 3 • Go to the menu on the display and disable the photocells and the service door; 4 • Try to close;	A) It closed: 1 • Problem is in one of these two systems. Activate the photocells and make sure the gate closes. If it closes, the problem will be on the service door. Activate it from the menu and try to close the gate to be sure.	B) Didn’t close: 1 • The problem is in the motor or in the central.Give the order to close the gate while measuring the output power from the central to the engine. If you have 24V, the center is working and the problem is in the engine. 2 • If it does not have power, the problem remains in the centralboard.	
	NOTE • With the gate open, if you give the order to close and you have some obstacle in front of the the photocells, LEDs blink twice. During closing, if it invert for stress detection, blink once.						
• Motor does not the full itinerary	• Unlock motor and move gate by hand to check for mechanical problems on the gate.	• Encountered any problems?	• Consult an gate’s techni- cian.	1 • Check all the motion axes and the movement systems associated to the gate and the automatism (rails,pulleys, bolts, hinges, etc.) to find out he problem. Also make sure the springs are in good condition and are able to withstand the gate.			
		• Is the gate moving easily?	• Consult a MOTORLINE qualified technician.	1 • Verify that the gate tests were well done; 2 • Change the force on P2 menu until the engine move the gate without changing direction; 3 • This adjustment must be made so that the gate when	meeting an obstacle inverts his direction (left illustration); 	4 • If even at his maximum strength (F9) the problem still remains, test the motor directly connected to a 24V battery to see if it has the strength to open/ close the door completely; 5 • Change the force on P2 menu	until the engine moves the gate without changing direction;

09. CENTRAL CONNECTIONS

ROSSO EVO CONTROL BOARD

