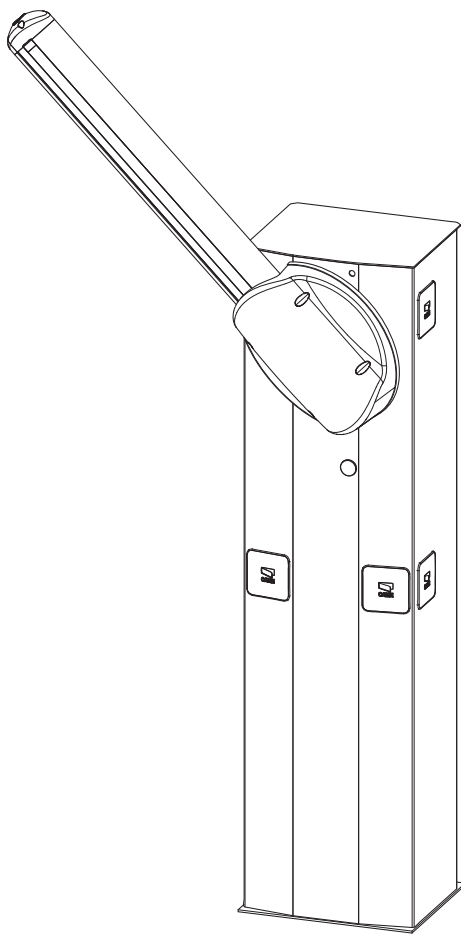


Street barriers

FA01213-EN



G3250

INSTALLATION MANUAL



WARNING!
important safety instructions for people:
READ CAREFULLY!



PREMISE

- THIS PRODUCT SHOULD ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS EXPLICITLY DESIGNED. ANY OTHER USE IS DANGEROUS. CAME S.p.A. IS NOT LIABLE FOR ANY DAMAGE CAUSED BY IMPROPER, WRONGFUL AND UNREASONABLE USE.
- THE SAFETY OF THIS PRODUCT AND ITS PROPER FITTING DEPENDS, THEREFORE, ON RESPECTING ITS TECHNICAL CHARACTERISTICS AND PROPER FITTING, TO BE DONE IN STATE-OF-THE-ART FASHION, AND UNDER SAFE CONDITIONS AS EXPRESSLY EXPLAINED IN THE LITERATURE THAT COMES WITH THE PRODUCT.
- KEEP THESE PRECAUTIONS TOGETHER WITH THE INSTALLATION AND OPERATION MANUALS THAT COME WITH THE OPERATOR.

BEFORE INSTALLING

(CHECKING WHAT'S THERE: IF SOMETHING IS MISSING, DO NOT CONTINUE UNTIL YOU HAVE COMPLIED WITH ALL SAFETY PROVISIONS)

- FITTING AND TESTING MUST BE ONLY PERFORMED BY QUALIFIED TECHNICIANS
- LAYING THE CABLES, INSTALLATION AND TESTING MUST FOLLOW STATE-OF-THE-ART PROCEDURES AS DICTATED BY REGULATIONS
- BEFORE BEGINNING ANY OPERATION IT IS MANDATORY TO CAREFULLY READ ALL INSTRUCTIONS; IMPROPER INSTALLATION MAY RESULT IN SERIOUS HARM TO PEOPLE AND THINGS.
- MAKE SURE THE BOOM IS IN GOOD MECHANICAL STATE, BALANCED AND ALIGNED, AND THAT IT OPENS AND CLOSES PROPERLY. ALSO, IF NEEDED, FIT SUITABLE PROTECTIONS OR USE PROPER SAFETY SENSORS
- IF THE OPERATOR IS TO BE INSTALLED AT A HEIGHT OF LESS THAN 2.5 M FROM THE GROUND OR OTHER ACCESS LEVEL, MAKE SURE YOU HAVE ANY NECESSARY PROTECTIONS AND/OR WARNINGS IN PLACE
- MAKE SURE THAT THE OPENING AUTOMATIC BARRIER DOES NOT CONSTITUTE A HAZARD
- DO NOT FIT UPSIDE DOWN OR ONTO ELEMENTS THAT COULD BEND. IF NECESSARY, ADD SUITABLE REINFORCEMENTS TO THE ANCHORING POINTS
- MAKE SURE THE TEMPERATURE RANGE SHOWN ON THE PRODUCT LITERATURE IS SUITABLE TO THE CLIMATE WHERE IT WILL BE INSTALLED
- DO NOT INSTALL ON TILTED, SLOPED OR UNEVEN SURFACES
- MAKE SURE ANY SPRINKLER SYSTEMS CANNOT WET THE OPERATOR FROM THE GROUND UP.

INSTALLING

- SUITABLY SECTION OFF AND DEMARCATe THE ENTIRE INSTALLATION SITE TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE AREA, ESPECIALLY MINORS AND CHILDREN
- BE CAREFUL WHEN HANDLING OPERATORS THAT WEIGH OVER 20 KG. IF NEED BE, USE PROPER SAFETY HOISTING EQUIPMENT
- THE CE-MARKED SAFETY DEVICES (PHOTOCELLS, STEPPING PLATES, SENSITIVE SAFETY-EDGES, EMERGENCY BUTTONS, AND SO ON), MUST BE FITTED IN COMPLIANCE WITH THE REGULATIONS IN EFFECT AND ACCORDING TO STATE-OF-THE-ART CRITERIA, TAKING INTO ACCOUNT THE ENVIRONMENT, THE TYPE OF REQUIRED SERVICE AND OF THE WORKING FORCES APPLIED TO MOVING BARRIERS. ANY SHEARING OR CONVEYING POINTS MUST BE SENSOR-PROTECTED
- ANY RESIDUAL RISKS MUST BE CLEARLY SHOWN
- ALL OPENING COMMANDS (THAT IS, BUTTONS, KEY SWITCHES, MAGNETIC READERS, AND SO ON) MUST BE INSTALLED AT LEAST 1.85 M FROM THE PERIMETER OF THE BARRIER'S WORKING AREA, OR WHERE THEY CANNOT BE REACHED FROM OUTSIDE THE BARRIER. ALSO, ANY DIRECT COMMANDS (BUTTONS, TOUCH PANELS, AND SO ON) MUST BE INSTALLED AT LEAST 1.5 M FROM THE GROUND AND MUST NOT BE REACHABLE BY UNAUTHORIZED PERSONS
- THE AUTOMATIC BARRIER MUST VISIBLY SHOW ITS IDENTIFICATION DATA.
- BEFORE CONNECTING THE MAINS POWER SUPPLY MAKE SURE THAT THE IDENTIFICATION DATA CORRESPOND TO THE THOSE OF THE NETWORK
- THE AUTOMATIC BARRIER MUST BE CONNECTED TO AN EFFECTIVE REGULATION GROUNDING SYSTEM.
- THE MANUFACTURER DECLINES ANY LIABILITY FOR USING NON-ORIGINAL PRODUCTS; WHICH WOULD RESULT IN WARRANTY LOSS
- ALL MAINTAINED ACTION COMMANDS, MUST BE FITTED IN PLACES FROM WHICH THE MOVING BARRIER AND TRANSIT AND DRIVING AREAS ARE VISIBLE
- APPLY, IF MISSING, A PERMANENT SIGN SHOWING THE POSITION OF THE RELEASE DEVICE
- BEFORE DELIVERING TO THE USERS, MAKE SURE THE SYSTEM IS EN 12453 AND EN 12445 STANDARD COMPLIANT (REGARDING IMPACT FORCES), AND ALSO MAKE SURE THE SYSTEM HAS BEEN PROPERLY ADJUSTED AND THAT ANY SAFETY, PROTECTION AND MANUAL RELEASE DEVICES ARE WORKING PROPERLY
- APPLY WARNING SIGNS WHERE NECESSARY AND IN A VISIBLE PLACE, (SUCH AS, (SUCH AS THE GATE'S LICENSE PLATE)

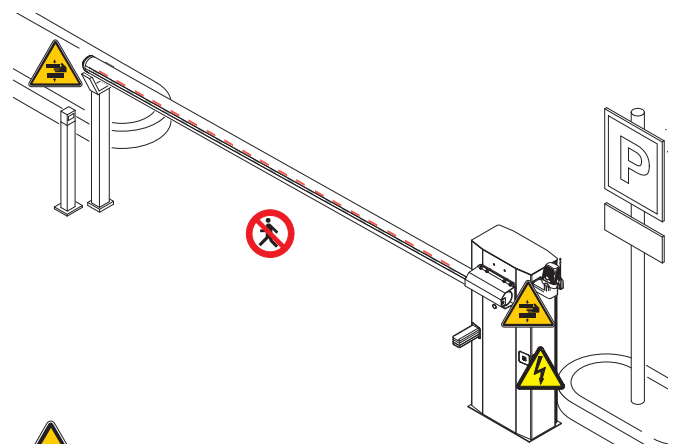
SPECIAL USER-INSTRUCTIONS AND RECOMMENDATIONS

- KEEP BARRIER OPERATION AREAS CLEAN AND FREE OF ANY OBSTRUCTIONS.
- MAKE SURE THE PHOTOCELL'S OPERATING FIELD IS CLEAR OF ANY OBSTRUCTIONS

- DO NOT ALLOW CHILDREN TO PLAY WITH FIXED COMMANDS, OR TO LOITER IN THE BARRIER'S MANEUVERING AREA. KEEP ANY REMOTE CONTROL TRANSMITTERS OR ANY OTHER COMMAND DEVICE AWAY FROM CHILDREN, TO PREVENT THE OPERATOR FROM BEING ACCIDENTALLY ACTIVATED
- THE APPARATUS MAY BE USED BY CHILDREN OF EIGHT YEARS AND ABOVE AND BY PHYSICALLY, MENTALLY AND SENSORY-CHALLENGED PEOPLE, OR EVEN ONES WITHOUT ANY EXPERIENCE, PROVIDED THIS HAPPENS UNDER CLOSE SUPERVISION OR ONCE THEY HAVE BEEN PROPERLY INSTRUCTED TO USE THE APPARATUS SAFELY AND TO THE POTENTIAL HAZARDS INVOLVED. CHILDREN MUST NOT PLAY WITH THE APPARATUS. CLEANING AND MAINTENANCE BY USERS MUST NOT BE DONE BY CHILDREN, UNLESS PROPERLY SUPERVISED
- FREQUENTLY CHECK THE SYSTEM FOR ANY MALFUNCTIONS OR SIGNS OF WEAR AND TEAR OR DAMAGE TO THE MOVING STRUCTURES, TO THE COMPONENT PARTS, ALL ANCHORING POINTS, INCLUDING CABLES AND ANY ACCESSIBLE CONNECTIONS. KEEP ANY HINGES, MOVING JOINTS AND BOOM FLANGE CLEAN, FRICTION FREE AND PROPERLY LUBRICATED. PERFORM FUNCTIONAL CHECKS ON THE PHOTOCELLS AND EVERY SIX MONTHS. CONSTANTLY CLEAN THE PHOTOCELLS' GLASS COVERS USING A SLIGHTLY WATER-MOISTENED CLOTH; DO NOT USE SOLVENTS OR CHEMICALS THAT COULD DAMAGE THE DEVICES
- IF REPAIRS OR MODIFICATIONS ARE REQUIRED TO THE SYSTEM, RELEASE THE OPERATOR AND DO NOT USE IT UNTIL SAFETY CONDITIONS HAVE BEEN RESTORED
- CUT OFF THE POWER SUPPLY BEFORE RELEASING THE OPERATOR FOR MANUAL OPENINGS. READ THE INSTRUCTIONS
- IF THE POWER SUPPLY CABLE IS DAMAGED, IT MUST BE REPLACED BY THE MANUFACTURER OR AUTHORIZED TECHNICAL ASSISTANCE SERVICE, OR IN ANY CASE, BY SIMILARLY QUALIFIED PERSONS, TO PREVENT ANY RISK
- IT IS FORBIDDEN FOR USERS TO PERFORM ANY OPERATIONS THAT ARE NOT EXPRESSLY REQUIRED OF THEM AND WHICH ARE NOT LISTED IN THE MANUALS. FOR ANY REPAIRS, MODIFICATIONS AND ADJUSTMENTS AND FOR EXTRA-ORDINARY MAINTENANCE, CALL TECHNICAL ASSISTANCE
- LOG THE JOB AND CHECKS INTO THE PERIODIC MAINTENANCE LOG.

FURTHER RECOMMENDATIONS FOR ALL

- KEEP AWAY FROM AND DO NOT LOITER NEAR THE BARRIER AND MECHANICAL MOVING PARTS
- DO NOT ENTER THE BARRIER'S AREA OF OPERATION WHEN IT IS MOVING
- DO NOT COUNTER THE OPERATOR'S MOVEMENT AS THIS COULD RESULT IN DANGEROUS SITUATIONS
- ALWAYS PAY SPECIAL ATTENTION TO ANY DANGEROUS POINTS, WHICH HAVE TO BE LABELED WITH SPECIFIC PICTOGRAMS AND/OR BLACK AND YELLOW STRIPES
- WHEN USING A SELECTOR SWITCH OR A COMMAND IN MAINTAINED ACTIONS, KEEP CHECKING THAT THERE ARE NO PERSONS WITHIN THE OPERATING RANGE OF ANY MOVING PARTS, UNTIL THE COMMAND IS RELEASED
- THE BARRIER MAY MOVE AT ANY TIME AND WITHOUT WARNING
- ALWAYS CUT OFF THE MAINS POWER SUPPLY BEFORE PERFORMING ANY MAINTENANCE OR CLEANING.



Danger of hand crushing






Danger! High voltage.




No transiting while the barrier is moving

LEGEND

-  This symbol shows which parts to read carefully.
-  This symbol shows which parts describe safety issues
-  This symbol shows which parts to tell users about.

DESCRIPTION

Barrier made of varnished galvanized steel set up to fit accessories.

 REQUEST EITHER LEFT OR RIGHT-HAND BARRIERS WHEN ORDERING. THE ILLUSTRATIONS IN THIS MANUAL ARE ALL FOR LEFT-HAND BARRIERS!

Intended use

The automatic barrier is designed for private and public parking facilities.

 Any installation and/or use other than that specified in this manual is forbidden.

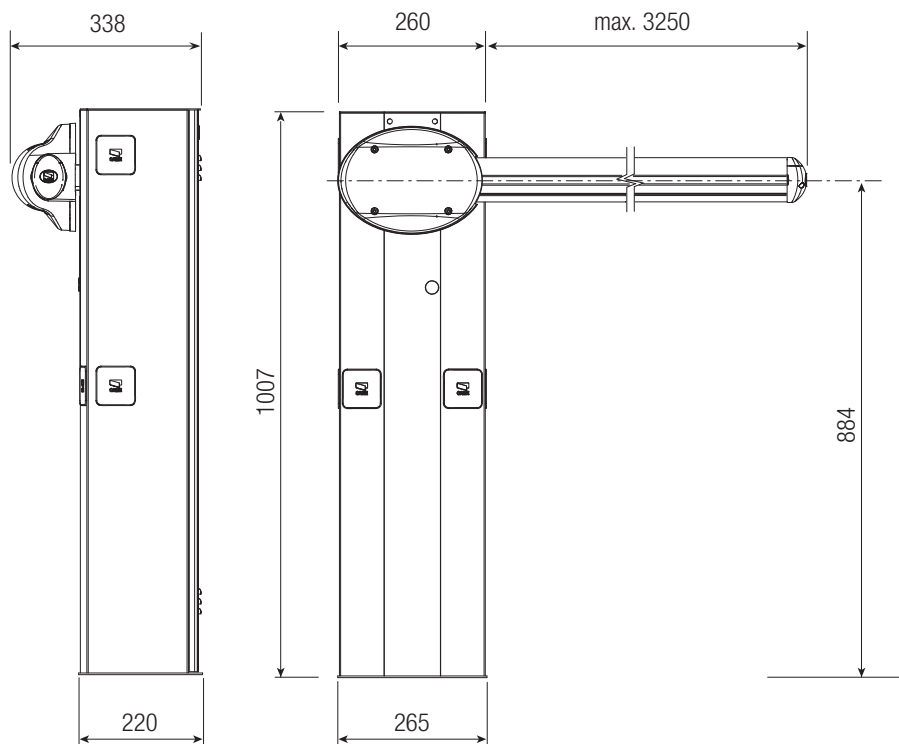
Limits to use

Model	G3250
Maximum clearance width of the passage (m)	3.25

Technical data

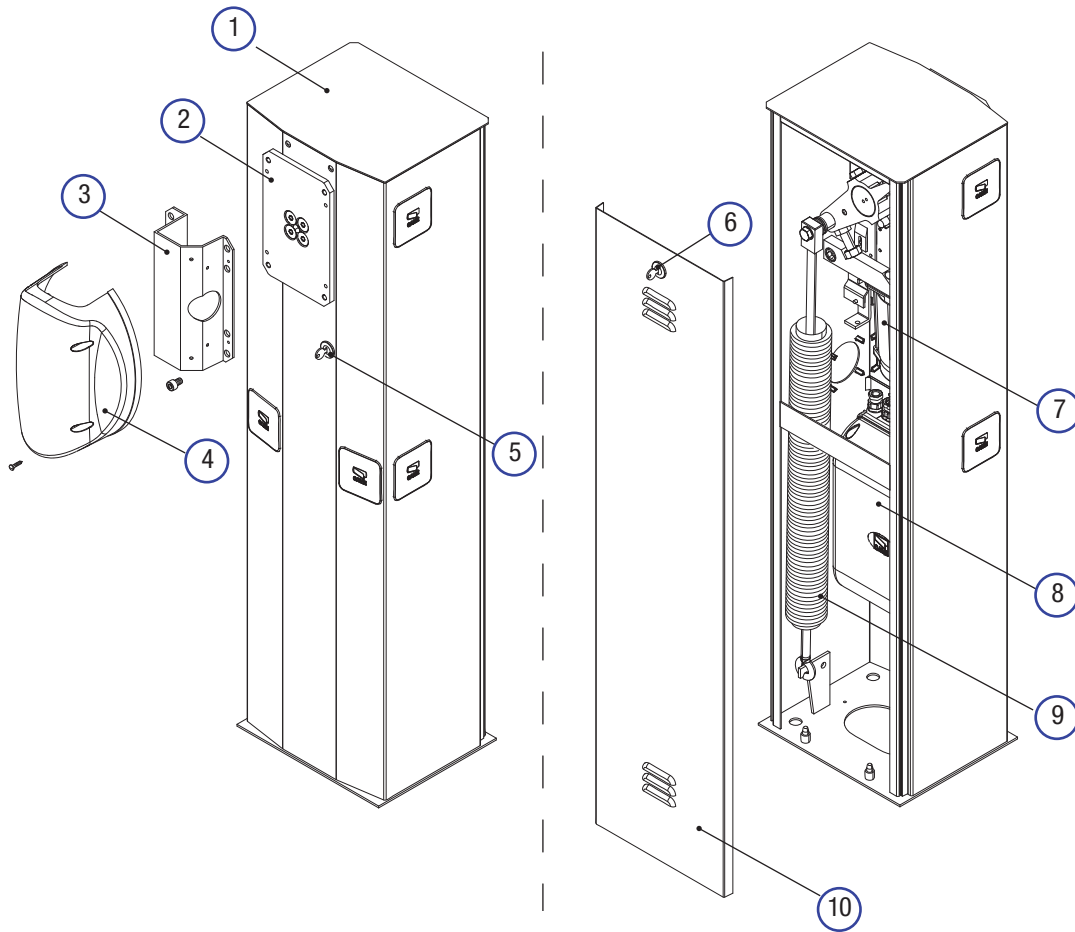
Model	G3250
Protection rating (IP)	54
Power supply (V - 50/60 Hz)	230 AC
Power supply motor (V)	24 DC
Max draw (A)	15
Power rating (W)	300
Torque (Nm)	200
Opening time (s)	2 ÷ 6
Duty cycle	INTENSIVE SERVICE
Operating temperature (°C)	-20 ÷ +55
Reduction ratio (i)	1/202
Apparatus class	I
Weight (Kg)	47

Dimensions (mm)



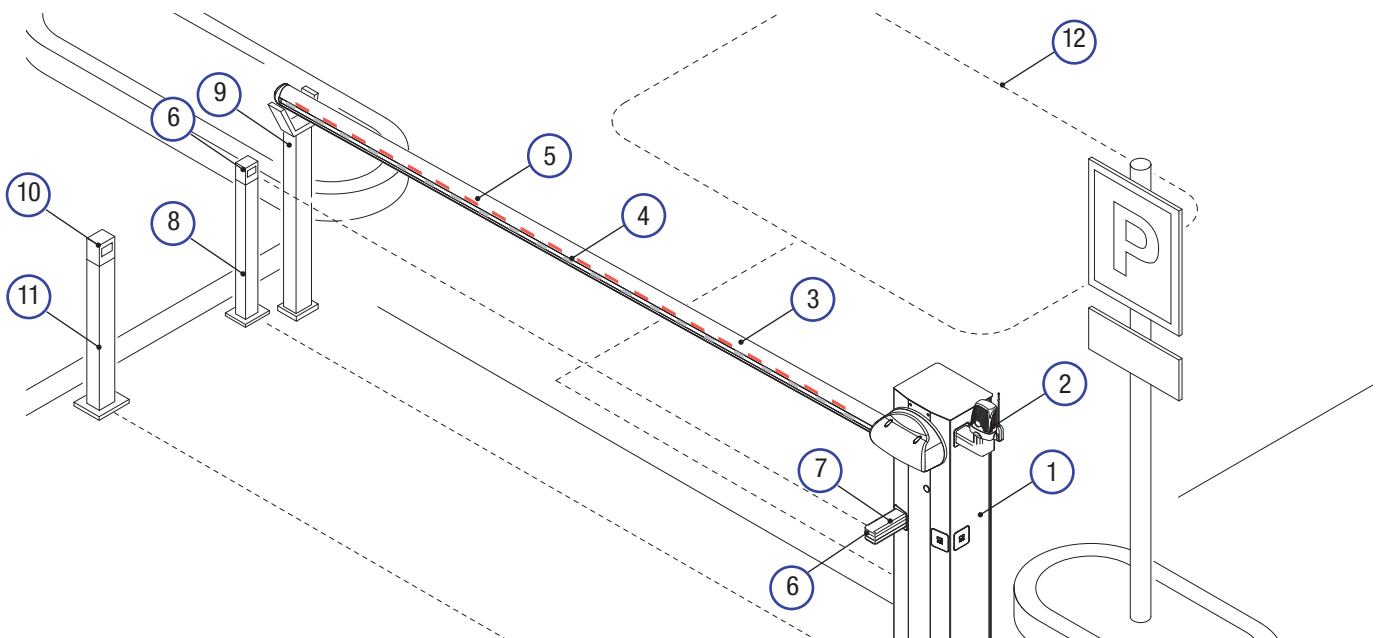
Description of parts

- | | |
|--|---------------------|
| 1. Cabinet | 7. Gearmotor |
| 2. Transmission-shaft plate | 8. Control panel |
| 3. Boom-attachment cover | 9. Balancing spring |
| 4. Anti-shearingprotective cover | 10. Inspectionhatch |
| 5. Gearmotor release with customized key | |
| 6. Hatch lock with customized key | |



Standard installation

- | | |
|-------------------------|--|
| 1. Barrier | 8. Photocells post |
| 2. Flashing light | 9. Fixed rest |
| 3. Semi-oval boom | 10. Control device (keypad, magnetic key, transponder, etc.) |
| 4. Luminous cord | 11. Controldevice post |
| 5. Redreflective strips | 12. Magnetic coils |
| 6. Photocells | |
| 7. Photocellbrace | |



GENERAL INSTRUCTIONS FOR INSTALLING

△ Only skilled, qualified staff must install this product.

Important! Using original CAME control and safety devices and accessories ensures easy installation and system maintenance.

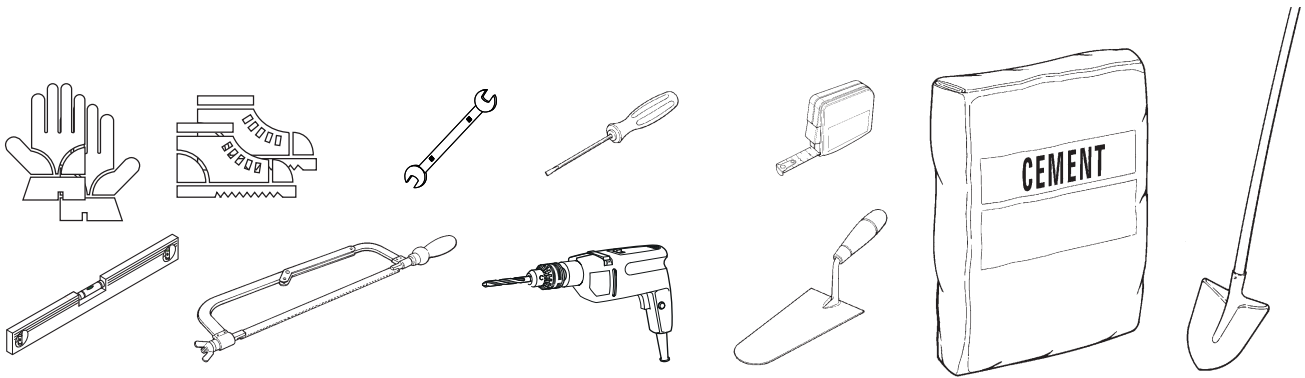
Preliminary checks

△ Before beginning, do the following:

- make sure the plate is anchored to a solid spot;
- make sure you have set up a suitable dual pole cut off device along the power supply that is compliant with the installation rules. It should completely cut off the power supply according to category III surcharge conditions (that is, with minimum contact openings of 3 mm);
- ⊕ Make sure that any connections inside the casing (ones that ensure continuity to the protection circuit) are fitted with additional insulation with respect to those of other electrical parts inside;
- set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage.

Tools and materials

Make sure you have all the tools and materials you will need for installing in total safety and in compliance with applicable regulations. The figure shows some of the equipment installers will need.



Cable types and minimum thicknesses

Connection	Cable type	Cable length 1 < 15 m	Cable length 15 < 30 m
Power supply 230 V AC	H05RN-F	3G x 1.5 mm ²	3G x 2.5 mm ²
Flashing light	FROR CEI 20-22 CEI EN 50267-2-1	2 x 0.5 mm ²	-
Photocell transmitters		2 x 0.5 mm ²	
Photocell receivers		4 x 0.5 mm ²	
Command and safety device		2 x 0.5 mm ²	
Antenna	RG58	max 10 m	
Metal mass detector		(see product literature)	

📖 If cable lengths differ from those specified in the table, establish the cable sections depending on the actual power draw of the connected devices and according to the provisions of regulation CEI EN 60204-1.

For multiple, sequential loads along the same line, the dimensions on the table need to be recalculated according to the actual power draw and distances. For connecting products that are not contemplated in this manual, see the literature accompanying said products

INSTALLING

⚠ The following illustrations are mere examples. Consider that the space available where to fit the barrier and accessories will vary depending on the area where it is installed. It is up to the installer to find the most suitable solution.

⚠ Warning! Warning! Use hoisting equipment to transport and position the barrier.

During the set up and installing stages the barrier could be unstable and tip over. So, be careful to not lean on it until it is completely fastened.

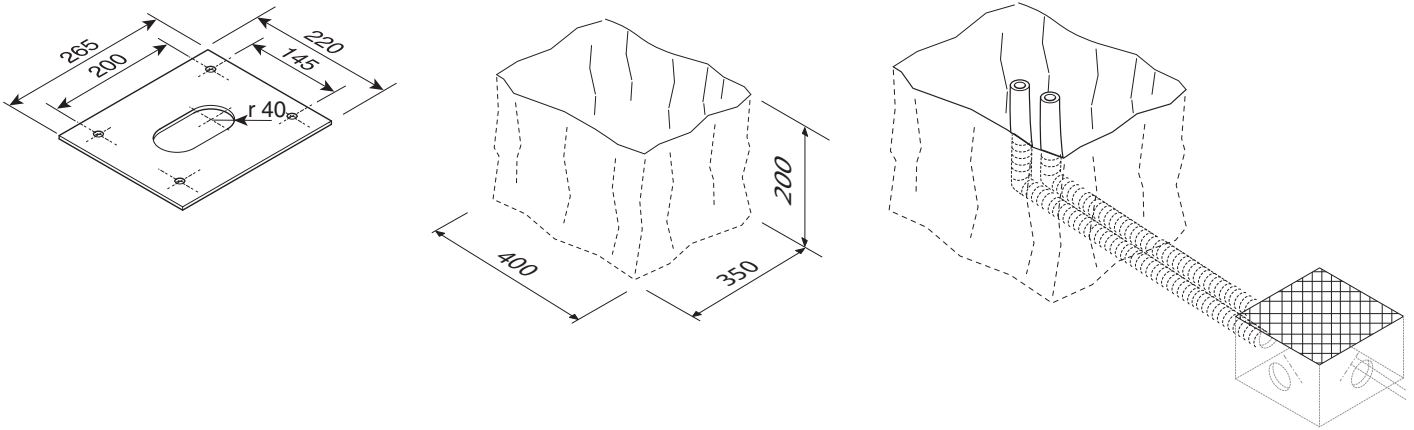
Preparing the fastening plate.

⚠ If the flooring does not allow for a sturdy fastening of the entry unit, you will have to set up a cement slab.

Dig a hole for the foundation frame.

Set up the corrugated tubes needed for making the connections coming out of the junction pit.

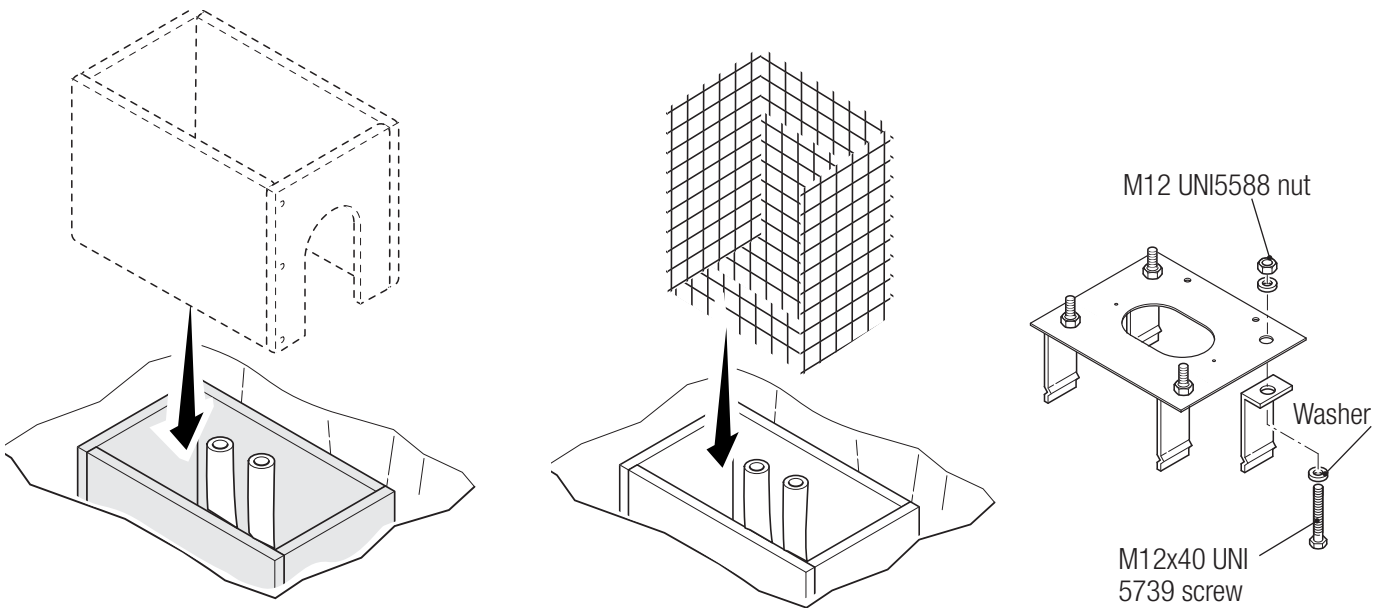
📖 The number of tubes depends on the type of system and the accessories you are going to fit.



Set up a foundation frame that is larger than the anchoring plate and sink it into the dug hole.

Fit an iron cage into the foundation frame to reinforce the concrete.

Assemble the four anchoring braces to the anchoring plate.

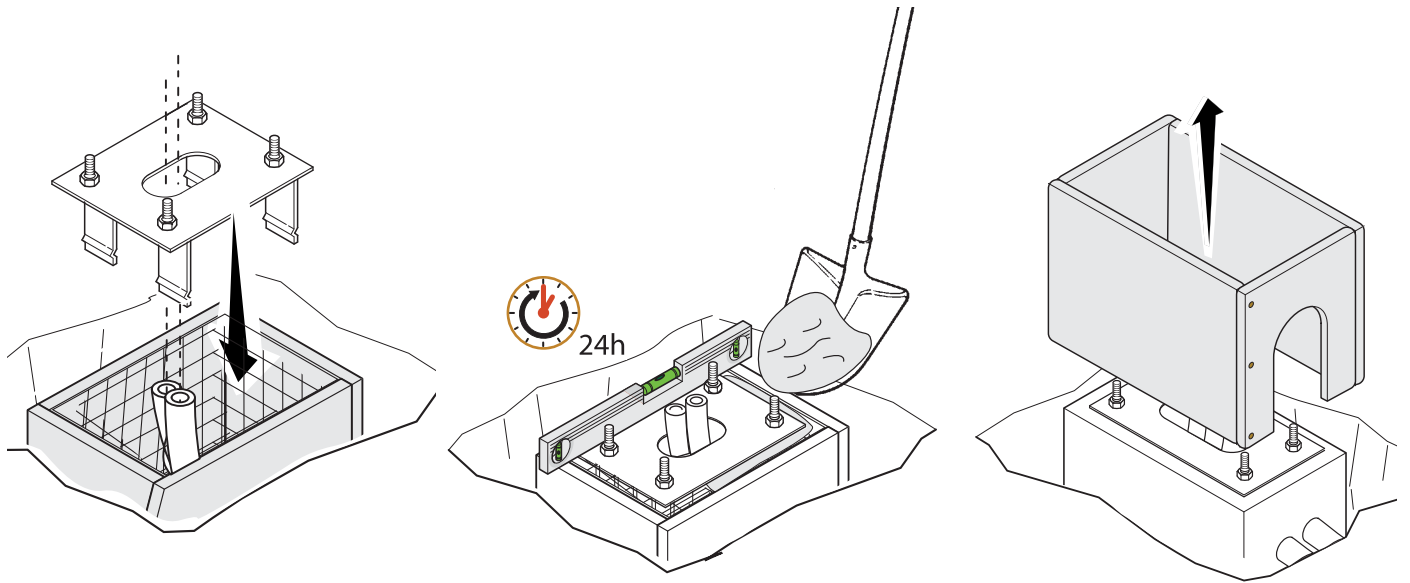


Place the plate over the iron cage.

Fill the foundation frame with concrete. The base must be perfectly level with the bolts which are entirely above surface.

Wait at least 24 hrs for the concrete to solidify.

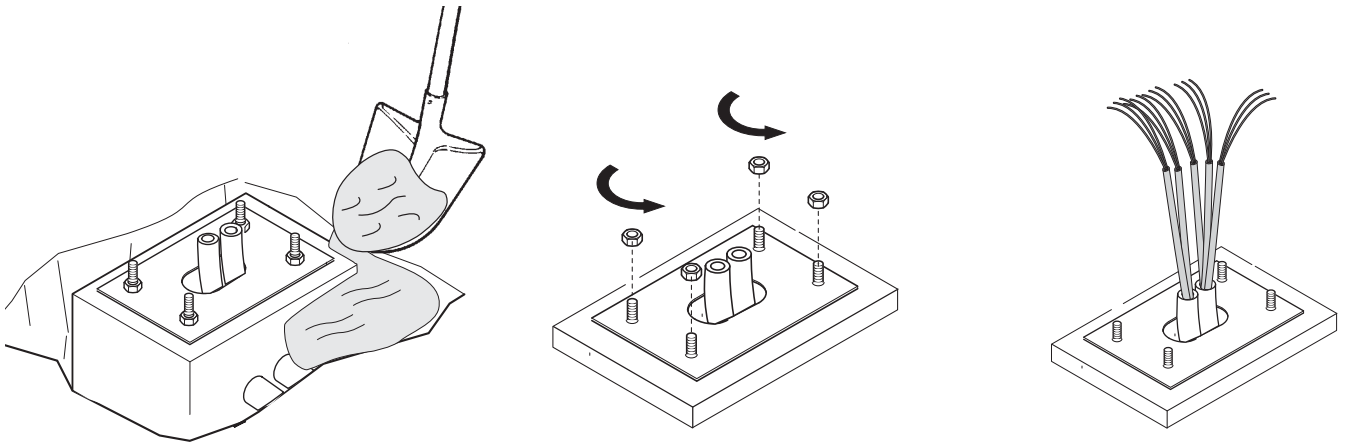
Remove the foundation frame.



Fill the hole with earth around the concrete block.

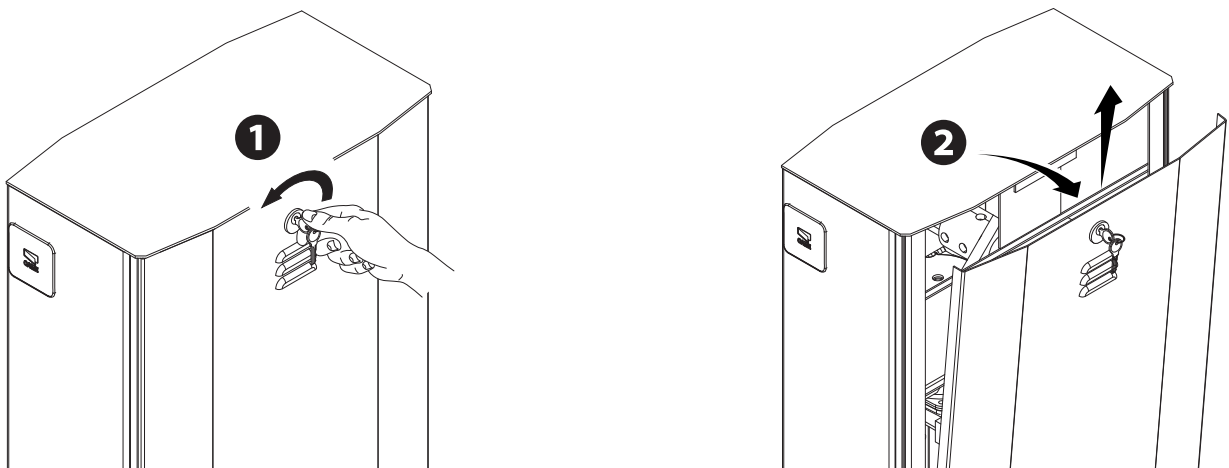
Remove the nut and washer from the bolts


Fit the electric cables into the tubes so that they come out about 600 mm.

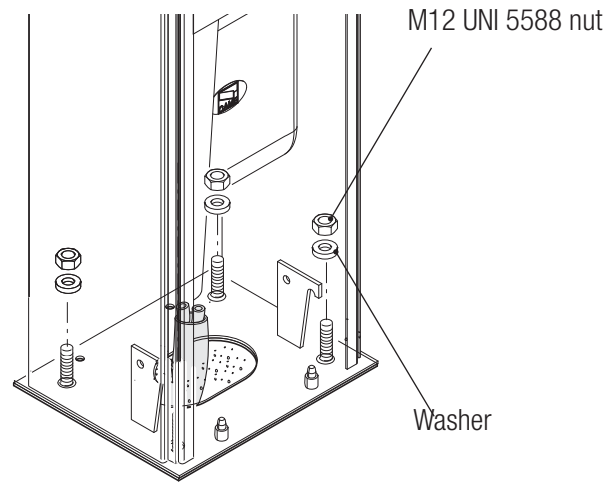
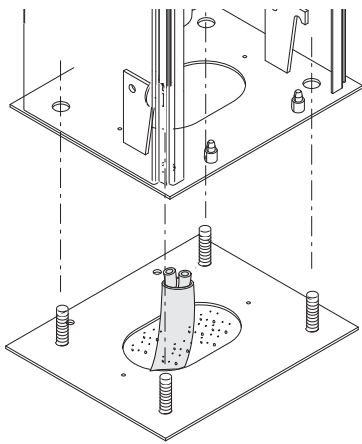


Fastening the barrier

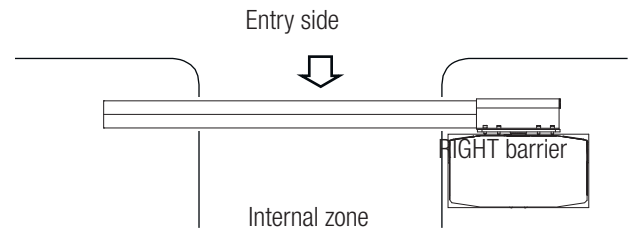
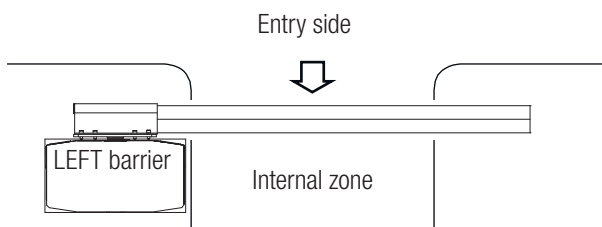
Fit the customized key into the lock and turn it counter-clockwise ❶. Remove the inspection hatch from the cabinet ❷.



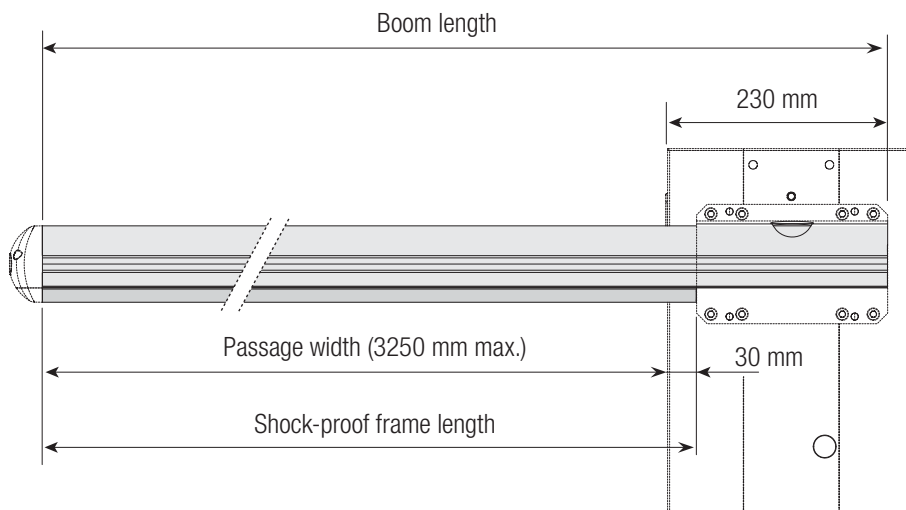
 The cabinet should be installed with the inspection hatch on the most accessible side to make any adjusting easier. Place the cabinet onto the anchoring plate and fasten it using nuts and washers.



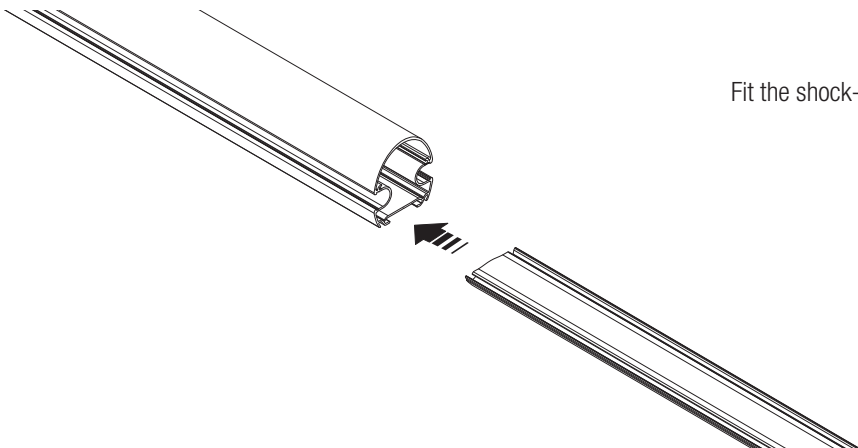
To change the rotation at a later date, request the documentation from your local retailer or contact Came in your Country (see the last page or visit www.came.com)



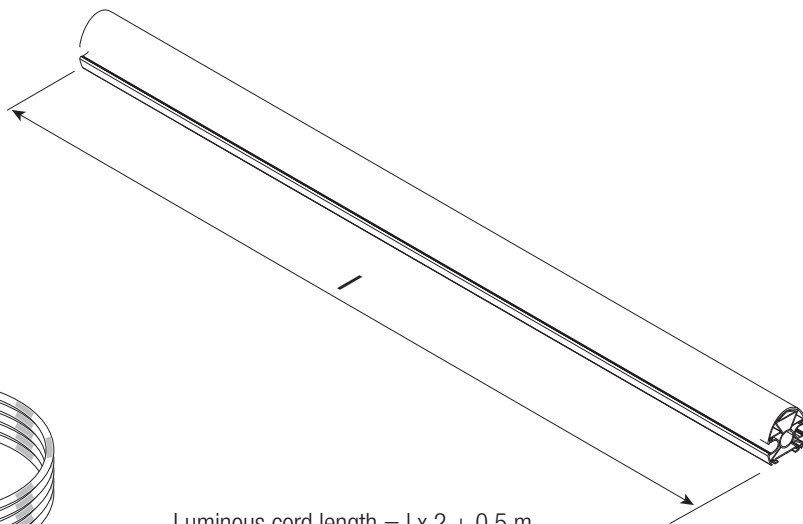
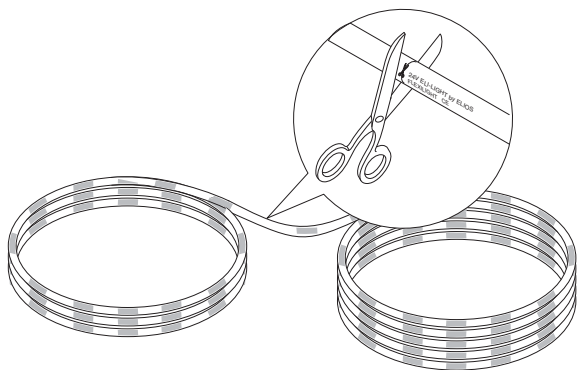
Measure the length of the boom and shock-resistant frame by measuring the length of the passage width. Cut off any excess.



Fit the shock-resistant frame to the boom's lower side

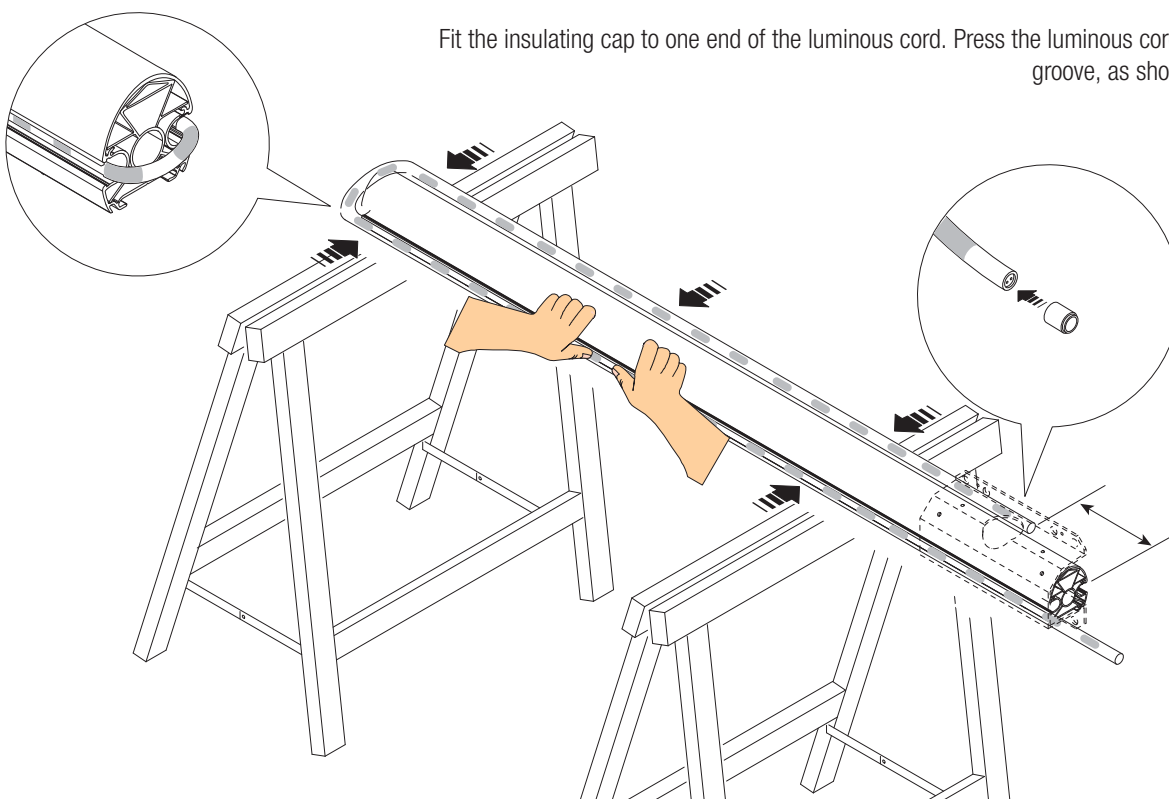


The luminous cord can only be cut at the points marked by the scissors icon, that is, at every meter. ✂

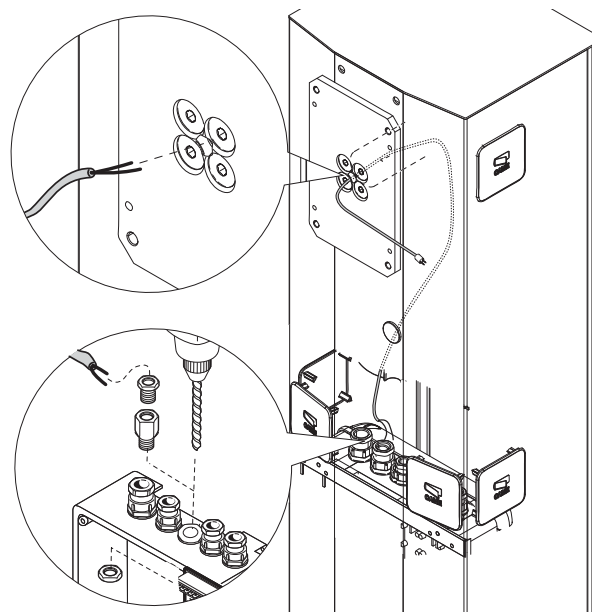


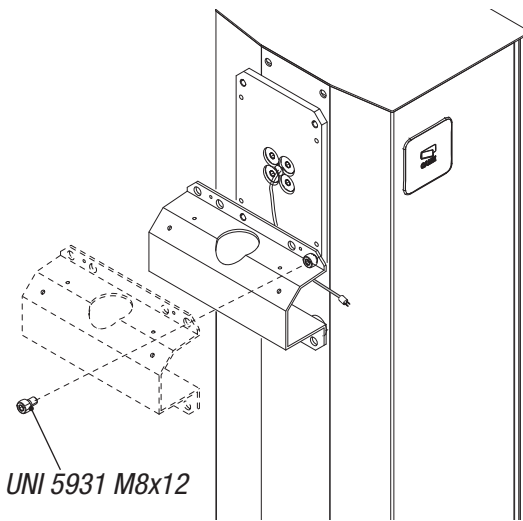
Luminous cord length = $l \times 2 + 0.5 \text{ m}$

Fit the insulating cap to one end of the luminous cord. Press the luminous cord into the boom's groove, as shown in the picture.



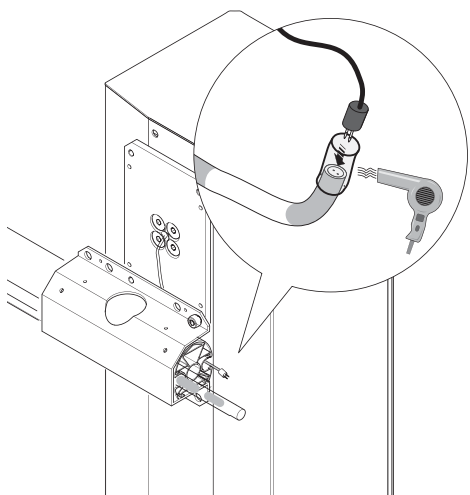
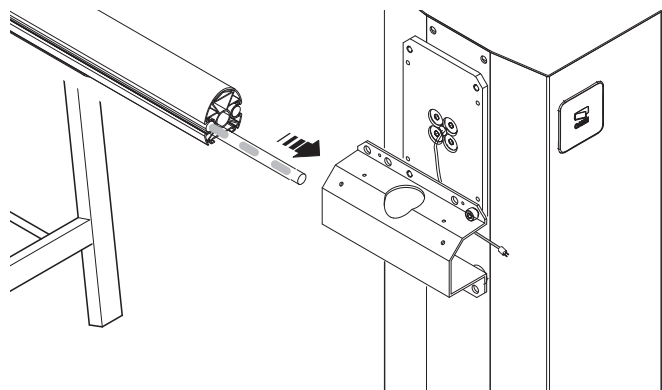
Fit the power supply cable through the center hole on the transmission shaft plate. Drill the control panel through one of the marked spots and fit the cable gland; insert and connect the cable (see the paragraph on electrical connections).



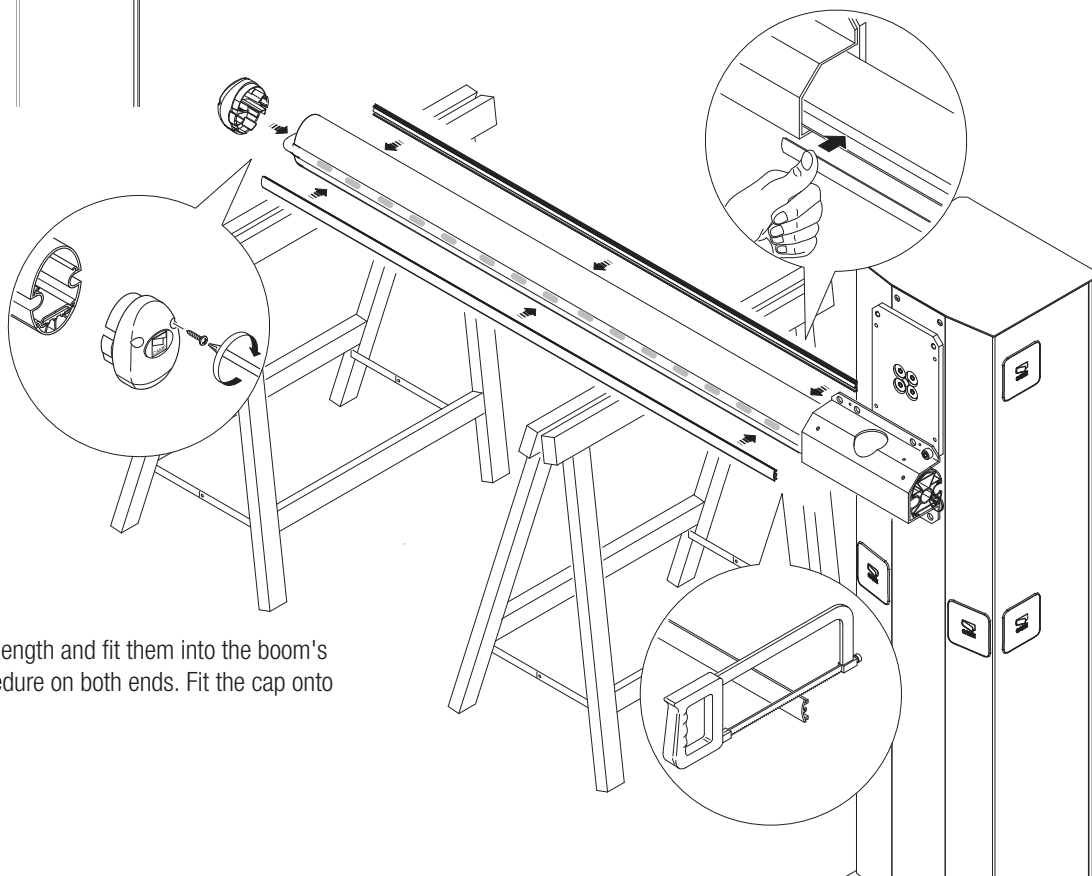


Place the boom-attachment cover against the transmission shaft plate; use only one screw and leave it loose.

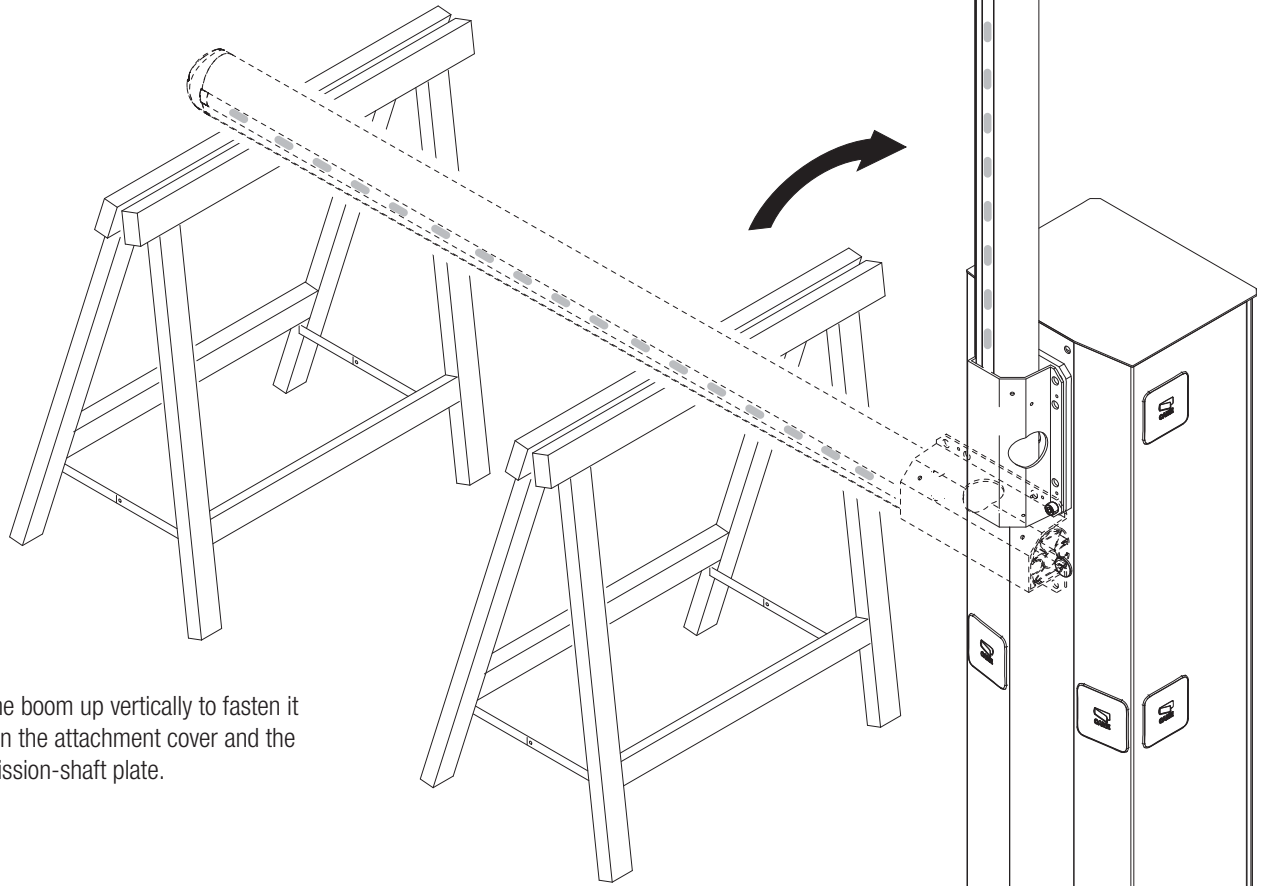
Fit the boom into the attachment cover - make sure the power cable is inside the boom's conduit.



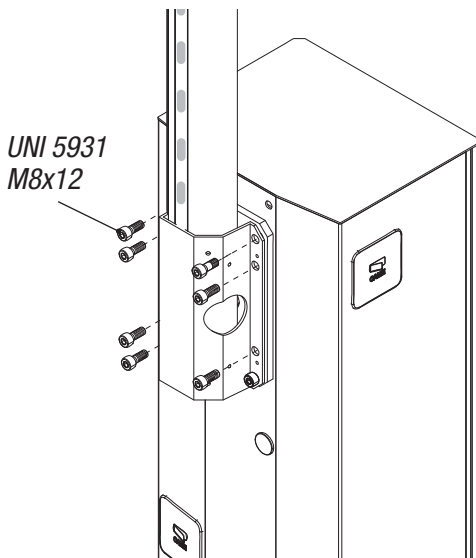
Plug the power supply cable into the luminous cord. If the luminous cord does not work, invert/rotate the plug, then isolate the junction point with heat-shrunk sheath.



Cut the groove profiles to length and fit them into the boom's groove. Perform this procedure on both ends. Fit the cap onto the end of the boom.

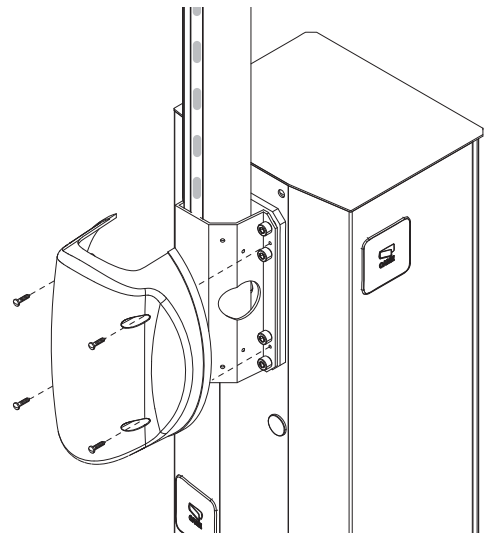


Push the boom up vertically to fasten it between the attachment cover and the transmission-shaft plate.



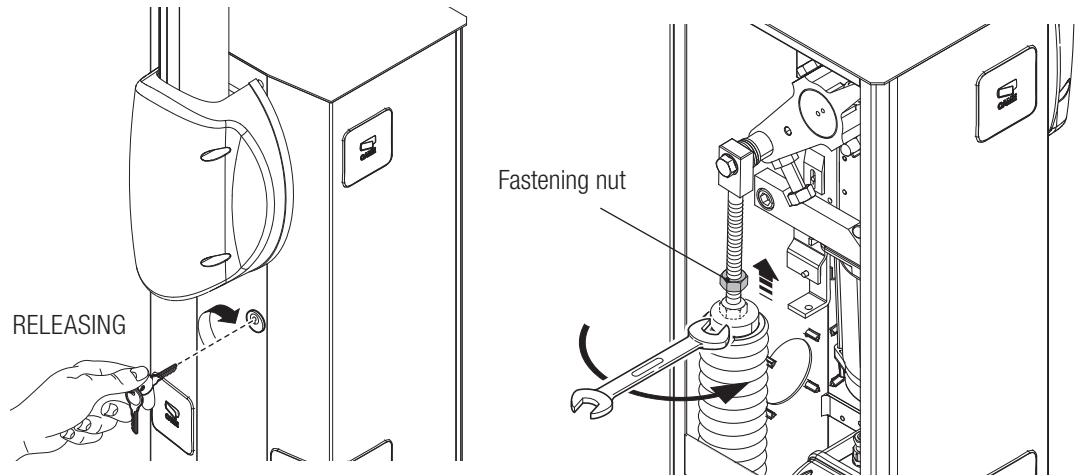
Fasten the boom by using the remaining screws.

Fit and fasten the anti-shearing protective cover onto the boom attachment-cover.

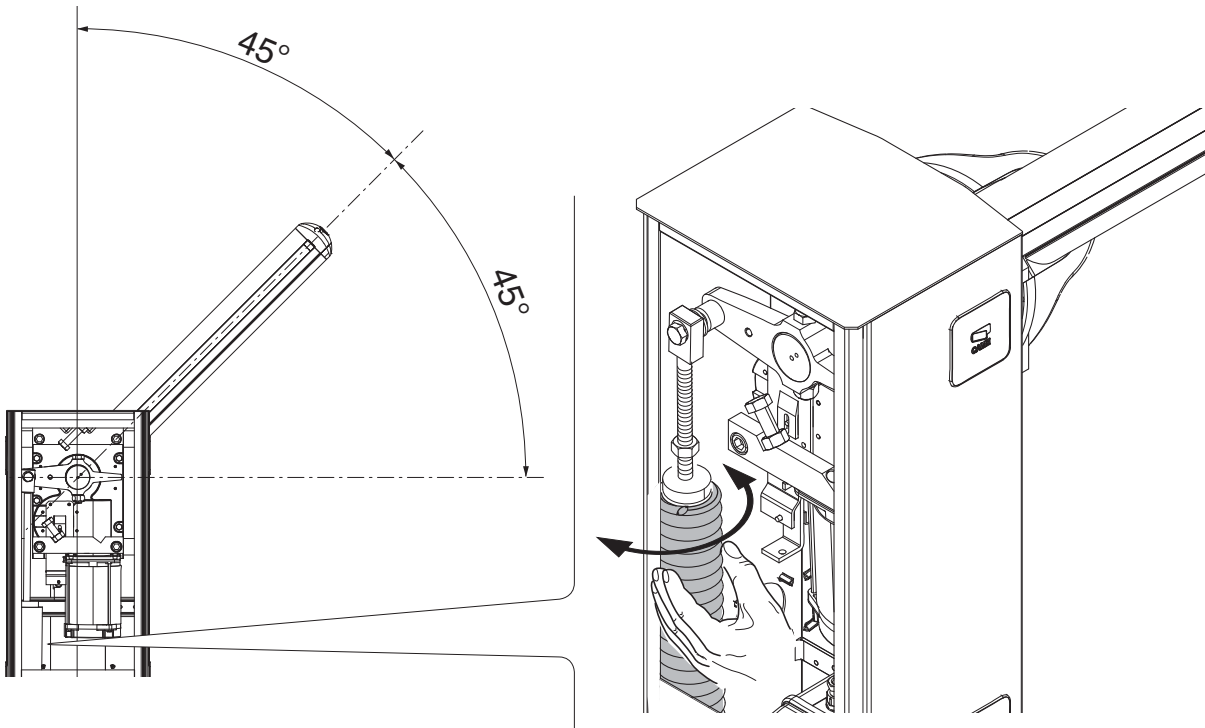


Balancing the boom

Release the gearmotor and loosen the rod nut.

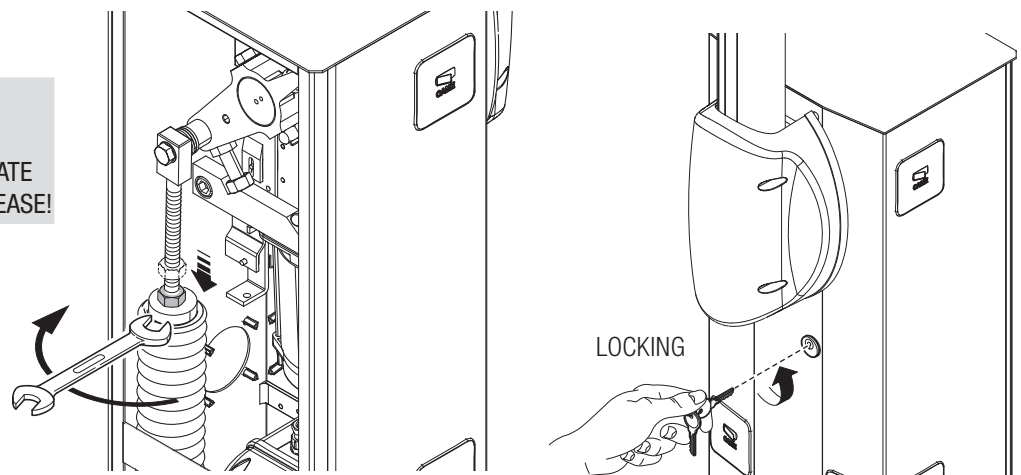


Manually turn the balancing spring to increase or reduce the traction force so that the boom balances at a 45-degree angle.



Fasten the rod nut and lock the gearmotor.

Warning! After performing balancing procedures, LUBRICATE THE SPRINGS WITH SPRAY GREASE!



ELECTRICAL CONNECTIONS AND PROGRAMMING

⚠ Warning! Before working on the control panel, cut off the main current supply and, if present, remove any batteries.

Power supply to the control panel and control devices: 24 V AC/DC.

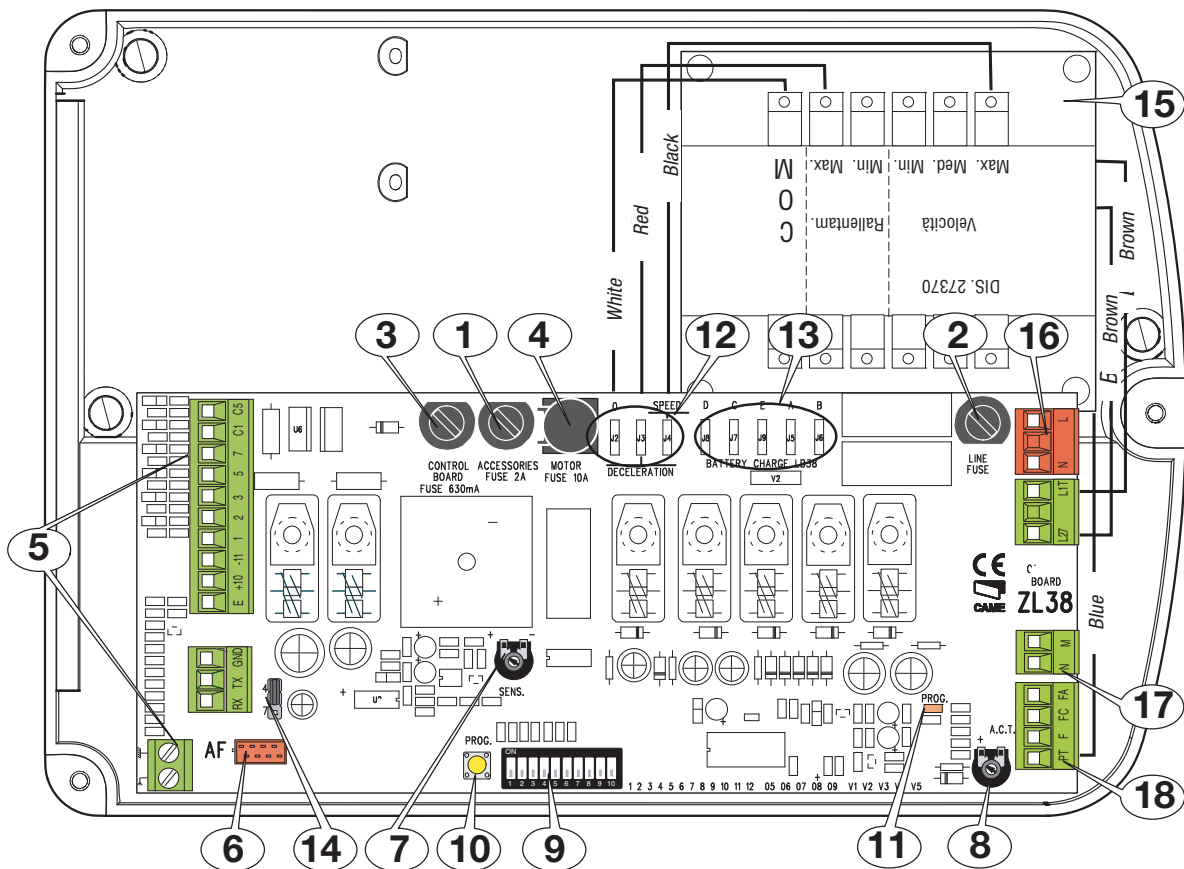
Use DIP switches to set functions and the trimmer for adjustments.

All connections are quick-fuse protected.

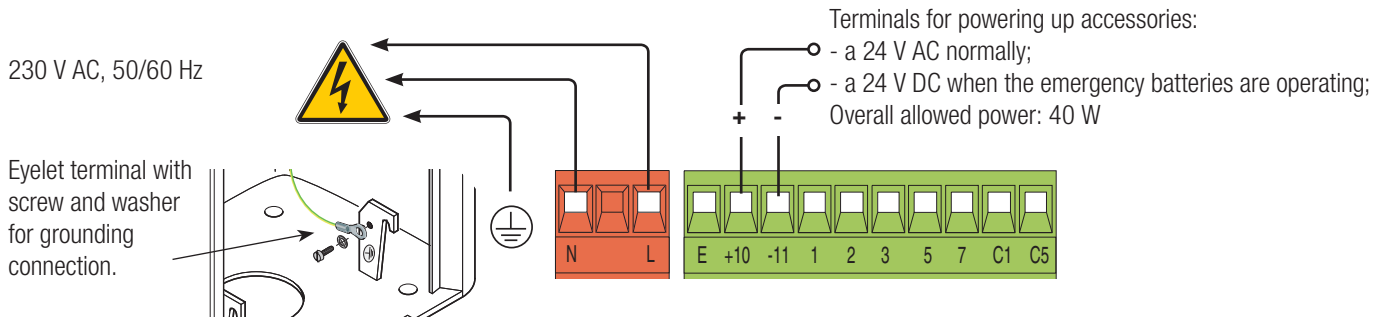
FUSE TABLE	ZL38
LINE - Line	3.15 A-F
C.BOARD - Card	630 mA-F
MOTOR - Gearmotor	10 A-F
ACCESSORIES - Accessories	2 A-F

Description of parts

- | | |
|---|--|
| 1. Accessories fuse | 10. Programming button |
| 2. Line fuse | 11. Programming warning LED |
| 3. Control-board fuse | 12. Speed and slow-down adjusting connectors |
| 4. Motor fuse | 13. Battery charger (LB38) connectors |
| 5. Terminals for control and safety devices | 14. Command type selection jumper |
| 6. AF card connector | 15. Transformer |
| 7. SENS trimmer | 16. Power supply terminals |
| 8. ACT Trimmer | 17. Terminal for gearmotors |
| 9. DIP-SWITCH | 18. Endstop terminals |



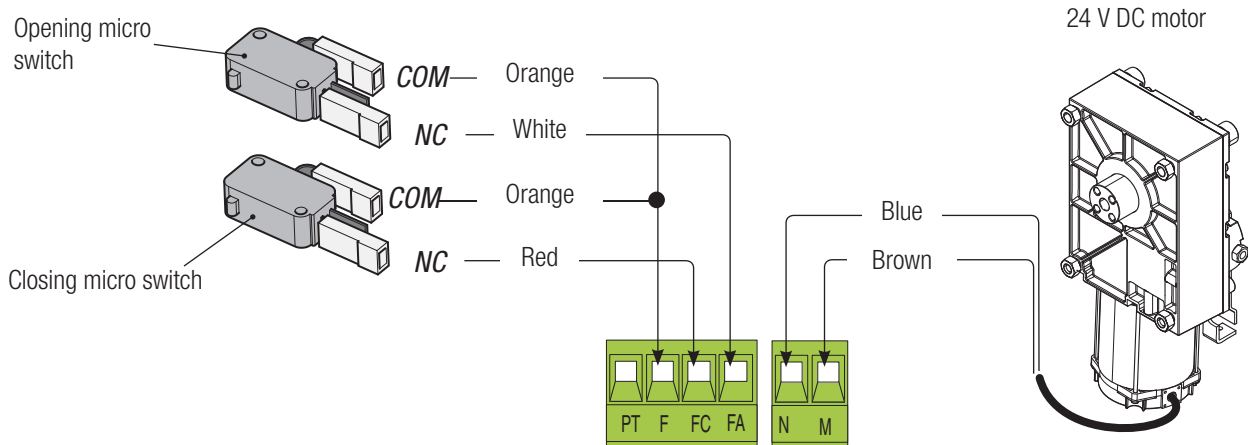
Power supply



Factory wiring

The gearmotor is already connected.

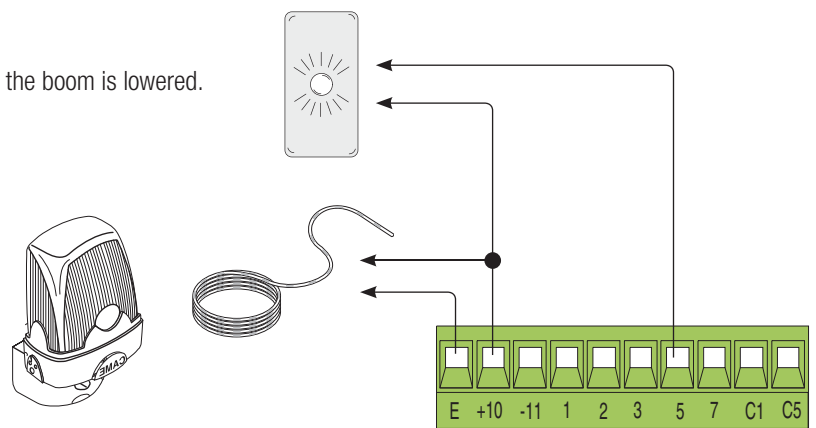
The illustration shows the connection for a left barrier. Right-hand barriers have the gearmotor cables inverted on terminals M-N.



Signaling devices

Barrier indicator light (contact rated for: 24 V AC - 3 W max).
 it warns of the booms raised position, and switches off when the boom is lowered.

Flashing light connection output (Contact rated at:
 24 V AC/DC - 32 W max).
 See DIP switch 3



Command and control devices

STOP button (NC contact). For stopping the boom while excluding the automatic closing. To resume movement either press the control button or any other control device.

 If unused, set DIP switch 9 to ON.

OPEN ONLY function from control device with NO contact.

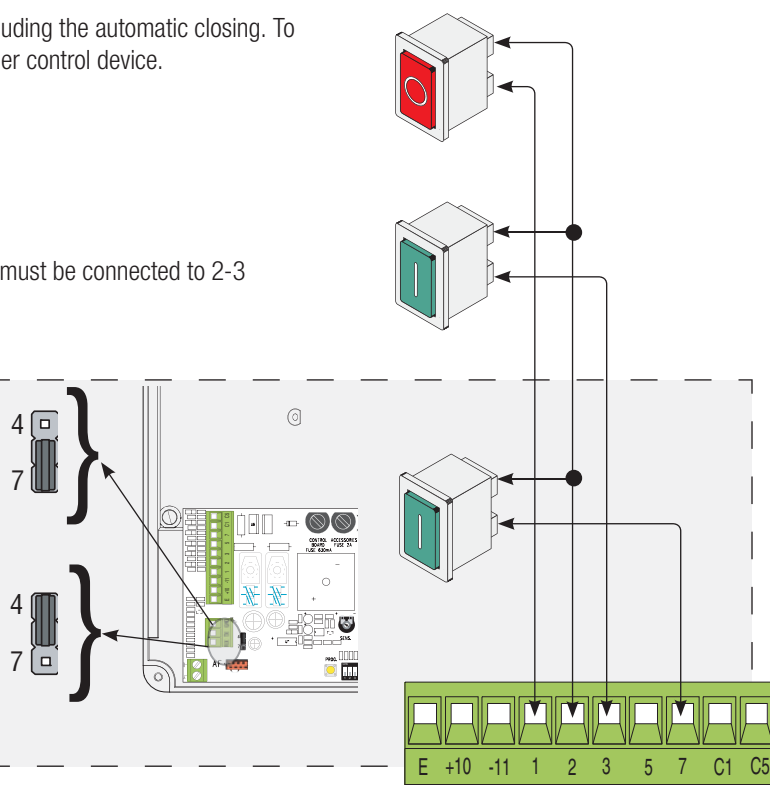
Warning: in MAINTAINED ACTION mode, the control device must be connected to 2-3

ONLY OPEN or OPEN-CLOSED-INVERT (step-step) function from control device (NO contact, see DIP switch 2).

Set the jumper as shown in the figure.

ONLY CLOSE function from control device (NO contact). Warning: in MAINTAINED ACTION mode, the control device must be connected to 2-4.

Set the jumper as shown in the figure.



Safety devices

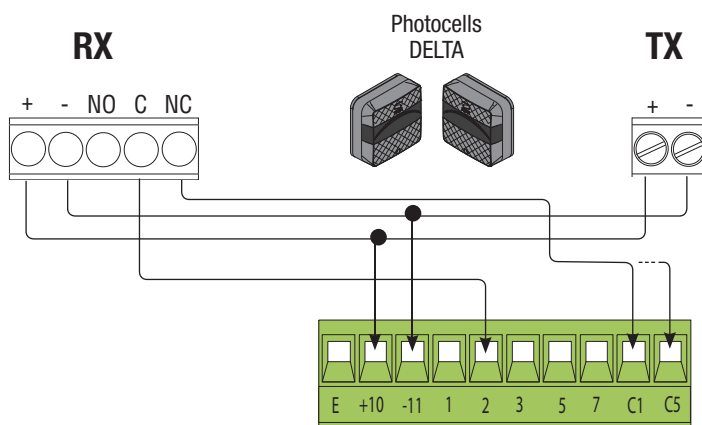
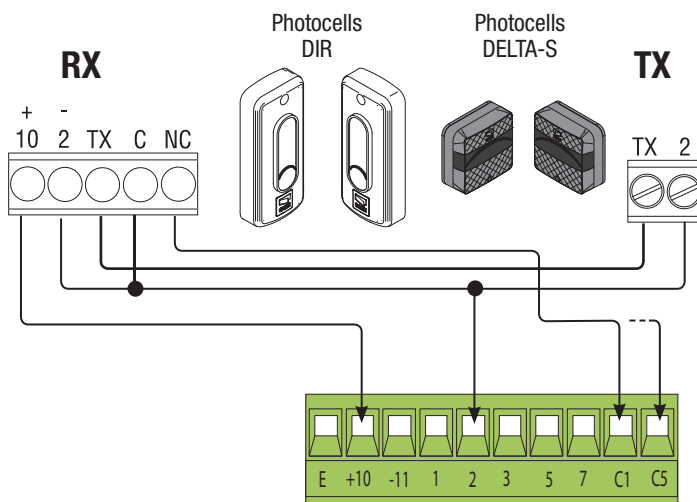
Configure contact C1 and/or C5 (NC), input for safety devices such as photocells, which comply with EN 12978 regulations.

C1 reopening while closing. When the boom is closing, opening the contact causes its movement to invert until fully opened;

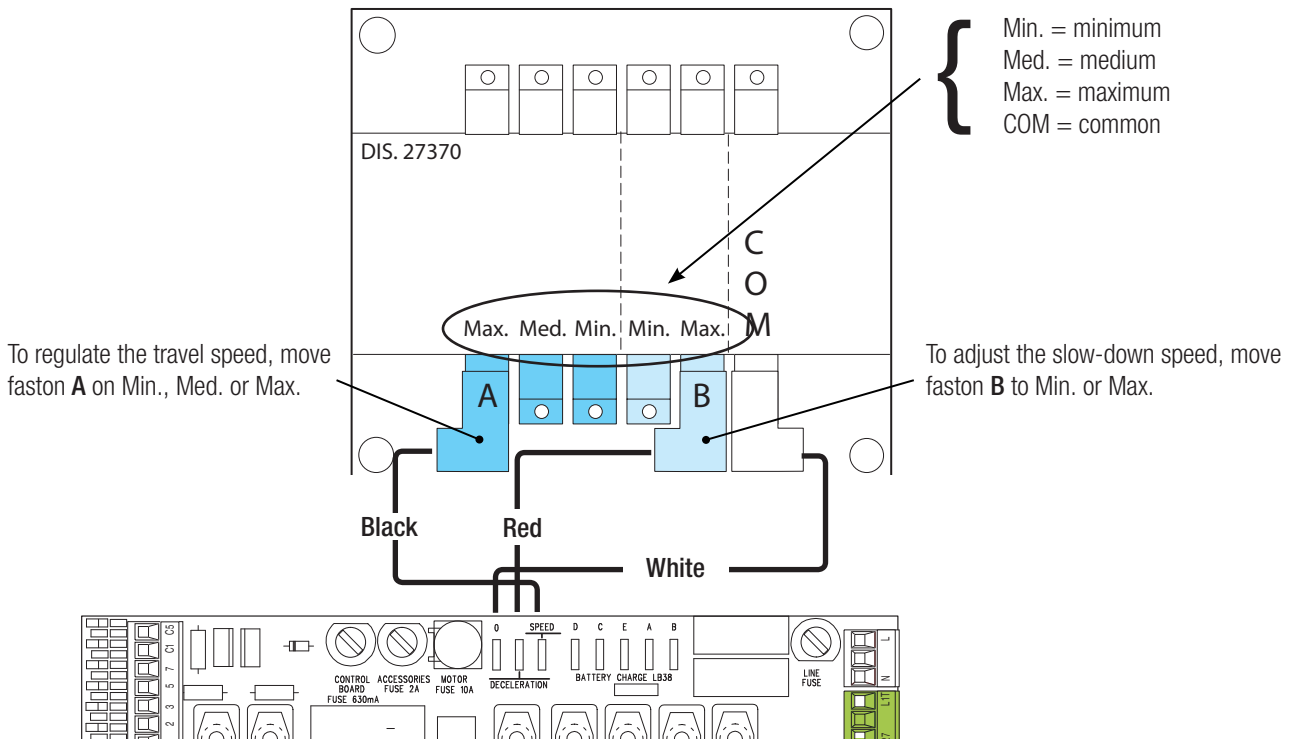
 If unused, shortcircuit contact 2-C1.

C5 immediate closing. Closing the boom after a vehicle has passed through the operating area of the safety devices.

 If unused, set DIP switch 8 to ON.



Adjusting speed



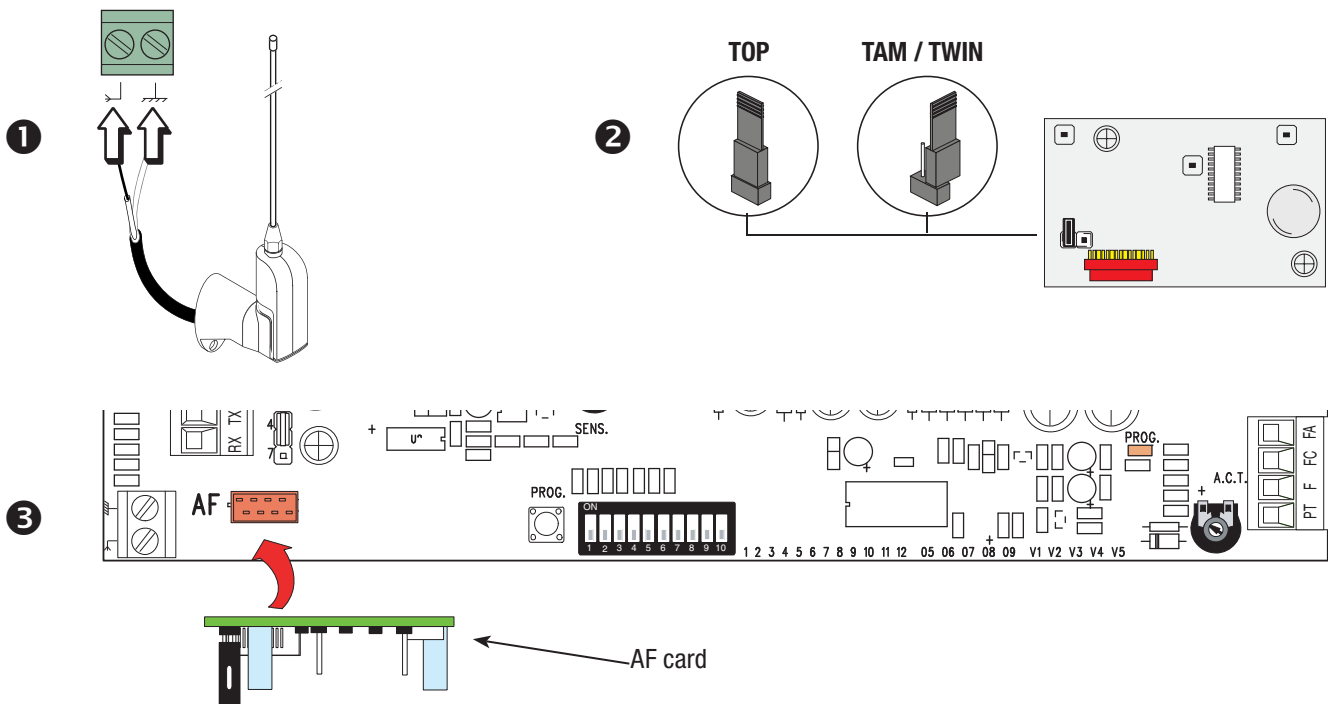
Activating the radio control

Connect the RG58 cable antenna cable to the corresponding terminals ❶.

For TOP, TAM and TWIN series transmitters with 433.92 MHz frequency, set the AF card jumper as shown in the figure ❷.

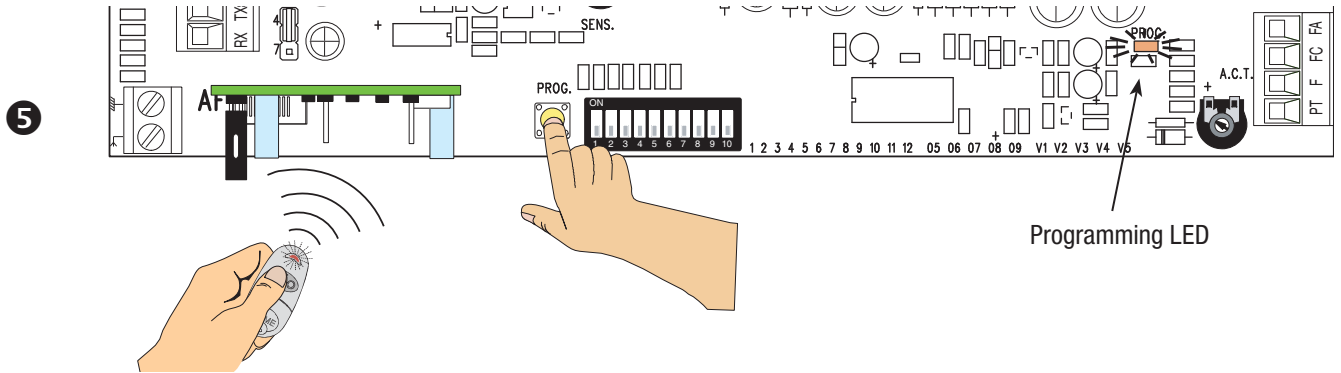
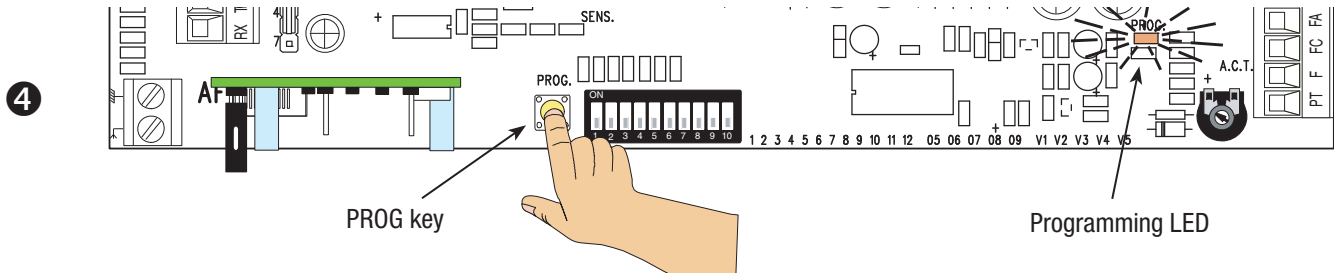
Fit the AF card into the control board connector ❸.

⚠ Before fitting the AF card, you MUST CUT OFF THE MAIN POWER SUPPLY and, remove any emergency batteries.



Keep pressed the PROG programming button on the control board. The programming LED flashes ④.

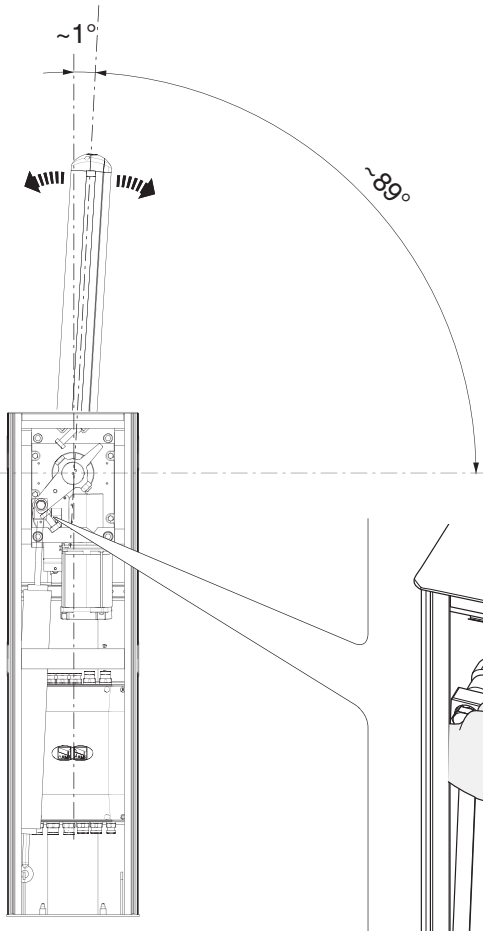
Press any key on the transmitter you want to memorize. The LED stays on to indicate that memorization has been successful ⑤.



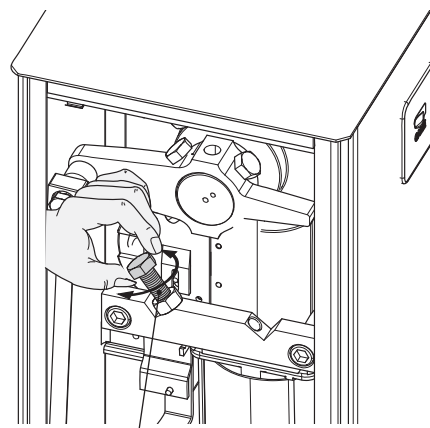
Establishing the limit-switch points

The boom's opening and closing maneuvers must be performed with the inspection hatch closed.

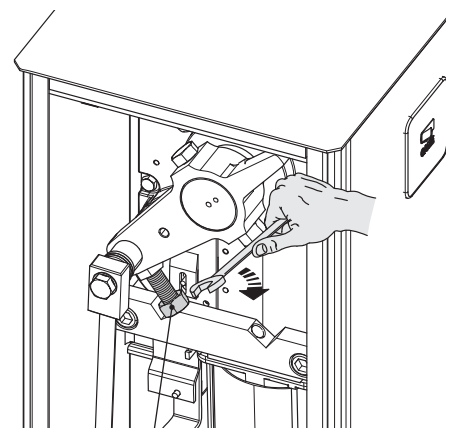
Activate the barrier to check whether the boom is parallel to the road surface when closed and at about 89° when open.



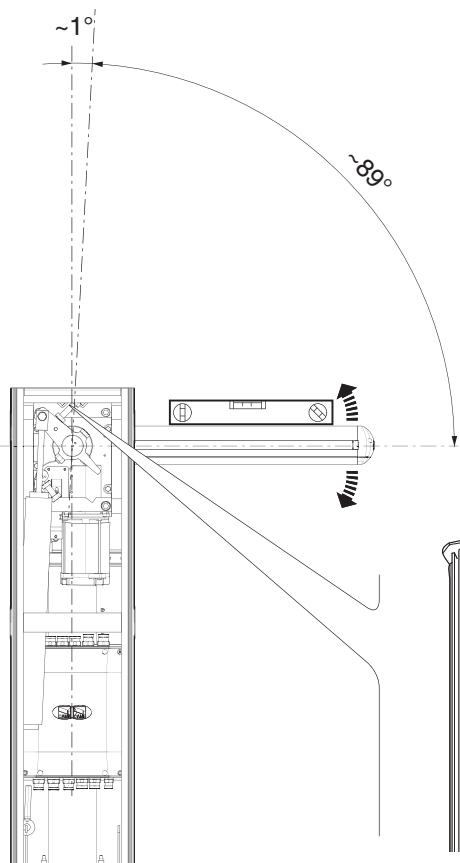
To correct the vertical, open, position, lower the boom, open the inspection hatch and turn the mechanical opening stop clockwise or counter clockwise, then fasten the stop by using the counter nut.



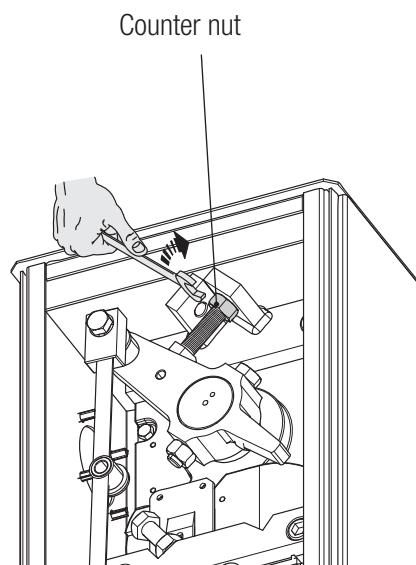
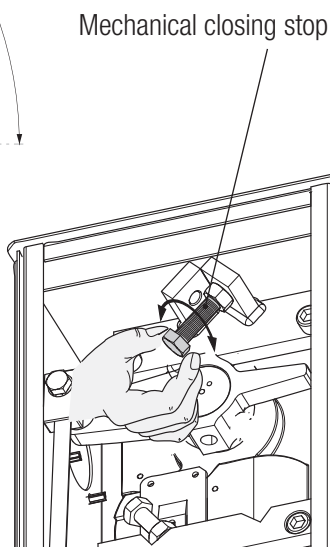
Mechanical stop



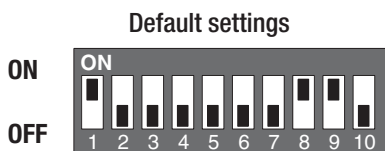
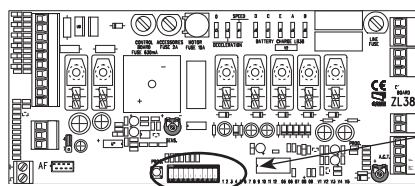
Counter nut



To correct the horizontal, closed, position, raise the boo, adjust the closing mechanical stop and fasten it by using the counter nut.

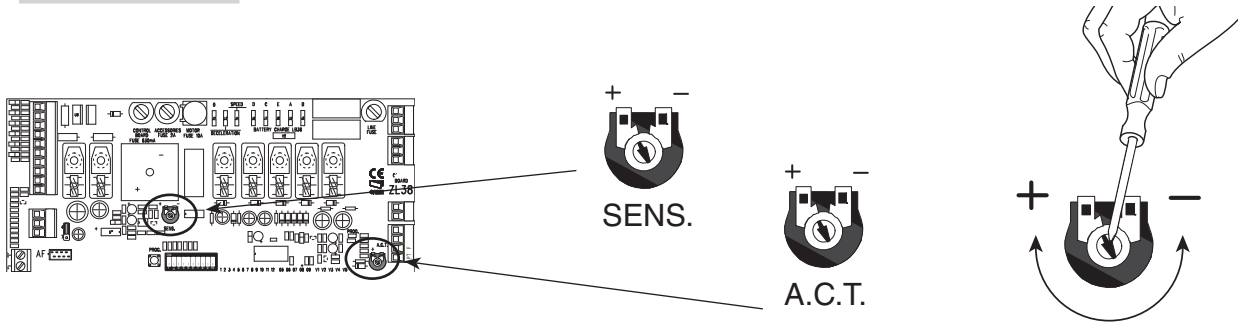


Programming the features



DIP-SWITCH	Description of functions
1 ON	AUTOMATIC CLOSING (1 OFF - deactivated)
2 ON	ONLY OPEN from button 2-7 and/or from transmitter (with AF card fitted)
2 OFF	OPEN-CLOSE-INVERT from the button on 2-7 and/or from a transmitter (with AF card fitted)
3 ON	24 V output on 10-E during the boom's movement phases and when it is in closed position
3 OFF	24 V output on 10-E during the boom's movement phases
4 ON	MAINTAINED ACTION (4 OFF - deactivated)
5 ON	PRE-FLASHING when opening and closing (pre-flashing duration: 5 seconds) (5 OFF - deactivated)
6 ON	OBSTRUCTION DETECTION when motor is idle (6 OFF - deactivated)
7 ON	SLAVE piloted motor (7 OFF - deactivated)
8 OFF	IMMEDIATE CLOSURE of the boom (8 ON - deactivated)
9 OFF	TOTAL STOP (9 ON - deactivated)
10 ON	BRAKING ACTION of the boom when closing (10 OFF - deactivated)

Trimmer adjustments



Trimmer Description of functions

Sensibility

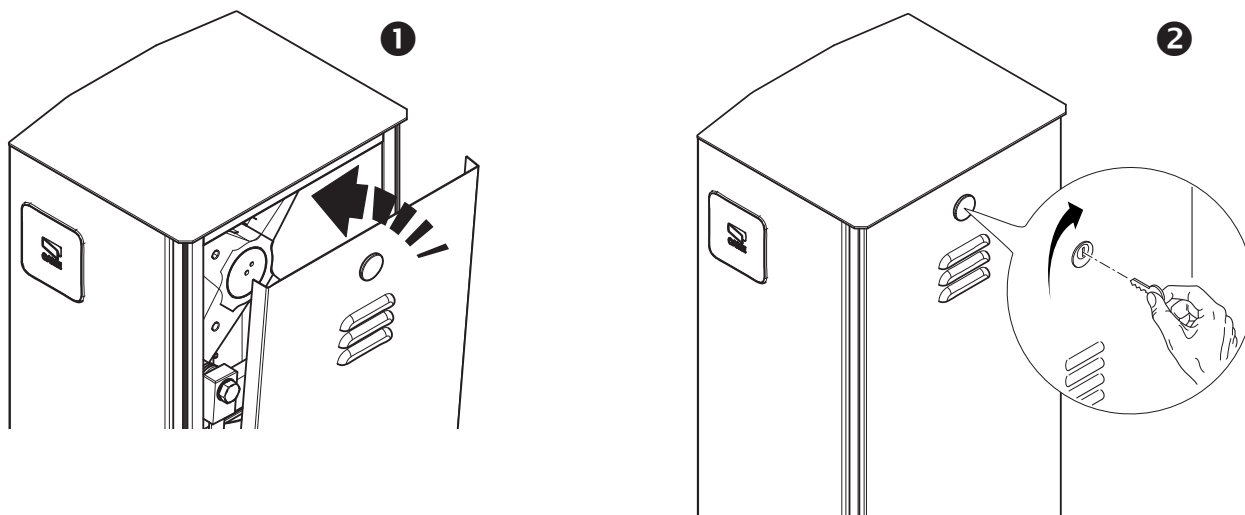
SENS It adjusts the obstruction detection sensitivity during gate movement. Minimum sensitivity (-) or maximum sensitivity (+).

Automatic Closing Time

A.C.T. It adjusts the barrier's waiting time when it is open. Once this time elapses, a closing maneuver is automatically performed. The waiting time may be adjusted to between 1 and 120 seconds

FINAL OPERATIONS

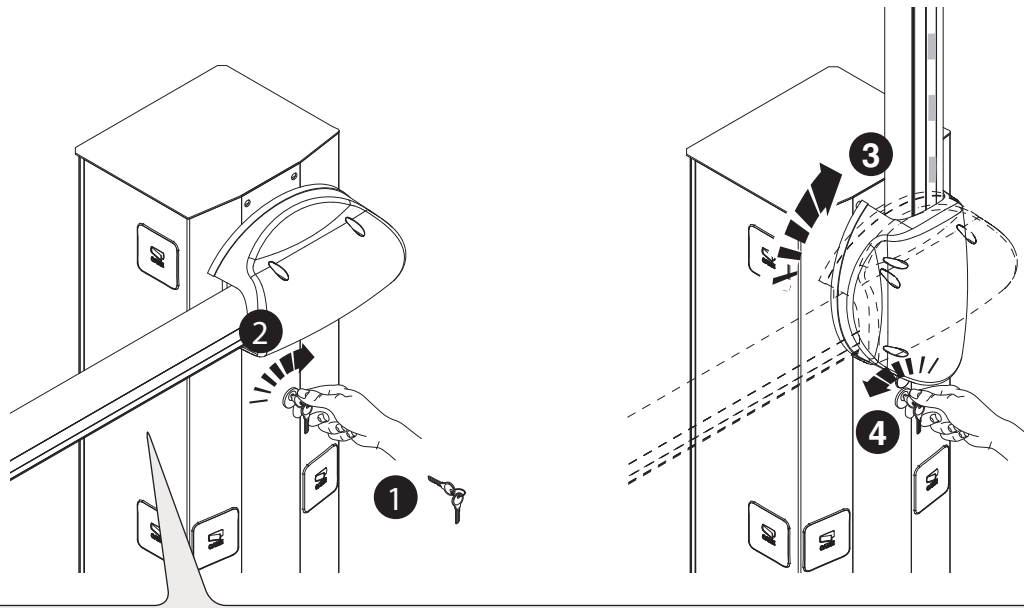
Once you've finished with the electrical connections and powered up the system, replace the inspection hatch **1**, lock by using the key **2**.



RELEASING THE BOOM

⚠ This procedure must be done with the main power cut off.

Fit the key into the lock and turn it clockwise ❶. Manually raise the boom and lock it back into place by turning the key counter clockwise ❷.



⚠ **WARNING!** This operation is potentially hazardous for user, when for whatever reason, such as the boom being badly fastened, ripped out or broken during an accident, and so on, the loosened springs no longer provide the proper balancing action. This could lead to a sudden rotation of the boom attachment and/or of the boom itself.

TROUBLESHOOTING

PROBLEM	REFERENCE	CHECK
The boom neither opens nor closes	1-2-3-4-6-8-18	1 - Lock the inspection hatch with the key
The boom opens but does not close	4-7-10	2 - Deactivate the MAINTAINED ACTION function
The boom closes but does not open	4-7-9	3 - Check the power supply and fuses
The barrier does not automatically close	11-12-13	4 - The NC contacts are open
The barrier does not work with the transmitter	2-14-16	6 - Deactivate the MASTER-SLAVE function
The boom's direction of travel is inverted	7-18	7 - Check the boom's balancing and spring tautness
Only one transmitter works	22	8 - Deactivate the OBSTRUCTION DETECTION function
The photocells do not work	12-23-24	9 - Check the opening endstop
The warning LED flashes quickly	4	10 - Check the closing endstop
The warning LED stays lit	13	11 - Activate the AUTOMATIC CLOSING function
The boom does not reach the endstop	7	12 - Check the proper direction of travel
The boom cannot be balanced	7-15	13 - Check the control devices
The barrier does not slow down	7-15	14 - Replace the AF card
The barrier does not work with emergency batteries	8-25-26	15 - Check the length ration between boom and applied accessories
The boom starts slow	7	16 - Memorize the radio code again
		18 - Adjust the sensitivity
		22 - Enter or duplicate the same code on all transmitters
		23 - Activate the photocells
		24 - Connect the photocells serially instead of in parallel fashion
		25 - Check the batteries
		26 - Respect the photocell's power supply polarities

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

Fitter's stamp	Name of operator
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	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

DISMANTLING AND DISPOSAL

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Please continue safeguarding the environment. At CAME we consider it one of the fundamentals of our operating and market strategies. Simply follow these brief disposal guidelines:

♻️ **DISPOSING OF THE PACKAGING**

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling.

Always make sure you comply with local laws before dismantling and disposing of the product.

DISPOSE OF RESPONSIBLY!

♻️ **DISMANTLING AND DISPOSAL**

Our products are made of various materials. Most of these (aluminum, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.

Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants.

These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area.

DISPOSE OF RESPONSIBLY!

REFERENCE REGULATIONS

This product complies with the law.



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