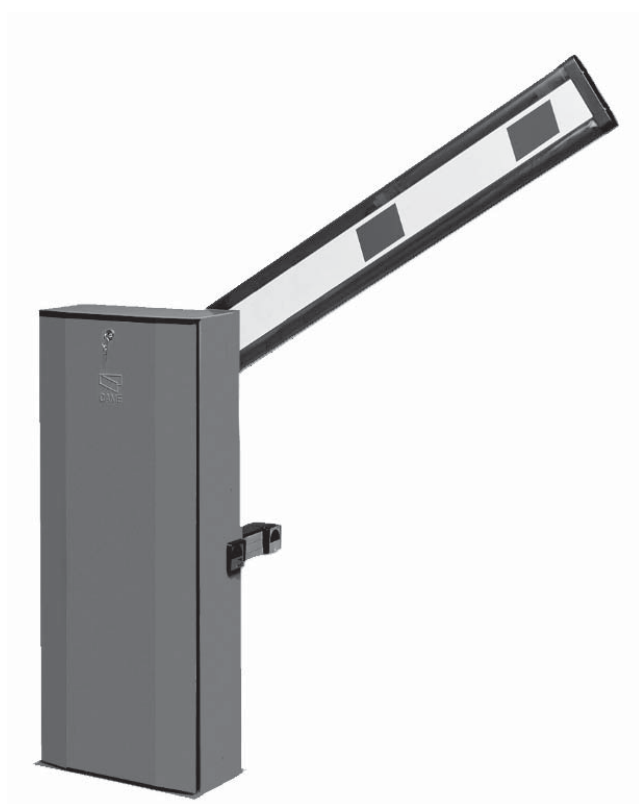


AUTOMATIC BARRIERS

FA00620-EN



INSTALLATION MANUAL

G6000 - G6001

EN English



WARNING!
Important safety instructions.
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 IS THERE: IF SOMETHING IS MISSING, DO NOT CONTINUE UNTIL YOU HAVE COMPLIED WITH ALL SAFETY PROVISIONS)

• FITTING AND TESTING MUST ONLY BE 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 PROPERTY. • 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 OVER 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 CREATE A HAZARD • DO NOT INSTALL THE OPERATOR UPSIDE DOWN OR ON ELEMENTS THAT COULD YIELD AND BEND. IF NECESSARY, ADD SUITABLE REINFORCEMENTS TO THE ANCHORING POINTS • DO NOT INSTALL ON TILTED SURFACES • MAKE SURE THE TEMPERATURE RANGE SHOWN ON THE PRODUCT LITERATURE IS SUITABLE TO THE CLIMATE WHERE IT WILL BE INSTALLED AS EXPLAINED IN THE MANUAL. • DO NOT INSTALL ON TILTED, SLOPED OR UNEVEN SURFACES • MAKE SURE ANY SPRINKLER SYSTEMS CANNOT WET THE OPERATOR FROM THE GROUND UP.

INSTALLATION

• SUITABLY SECTION OFF AND DEMARCATÉ 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 MAIN 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 THE GATE LICENSE PLATE).

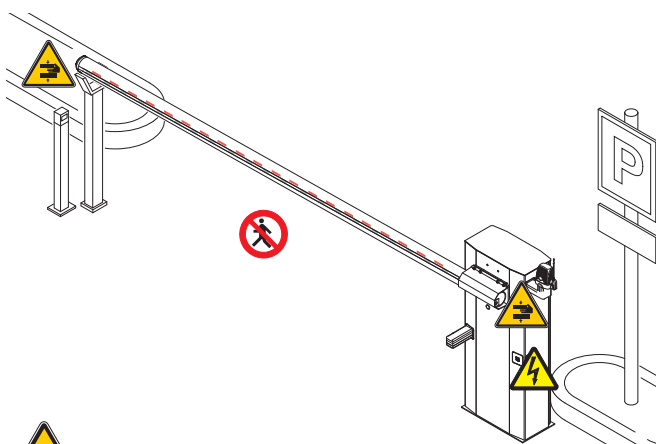
SPECIAL USER INSTRUCTIONS AND RECOMMENDATIONS

• 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 MANOEUVRING 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 PEOPLE WITH PHYSICAL OR COGNITIVE DISABILITIES, OR THOSE LACKING EXPERIENCE, PROVIDED THIS HAPPENS UNDER CLOSE SUPERVISION

OR ONCE THEY HAVE BEEN PROPERLY INSTRUCTED ON HOW TO USE THE APPARATUS SAFELY AND ON 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 AND BEFORE ANY OTHER OPERATION, TO PREVENT POTENTIALLY HAZARDOUS SITUATIONS. 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 EXTRAORDINARY 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 AREA OF OPERATION WHEN THE BARRIER 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 LABELLED 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 POWER SUPPLY BEFORE PERFORMING ANY MAINTENANCE OR CLEANING.



Danger of hand crushing






Danger! High voltage.



No transiting while the barrier is moving

KEY

-  This symbol shows the parts which must be read with care.
-  This symbol shows the parts which describe safety issues.
-  This symbol indicates what should be communicated to users.

DESCRIPTION

Barrier made of varnished, galvanized steel or AISI 304 stainless steel, with control panel.

Intended use

The barrier is designed for use in private and public parking facilities, in residential settings and for high-rates of vehicle traffic.

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

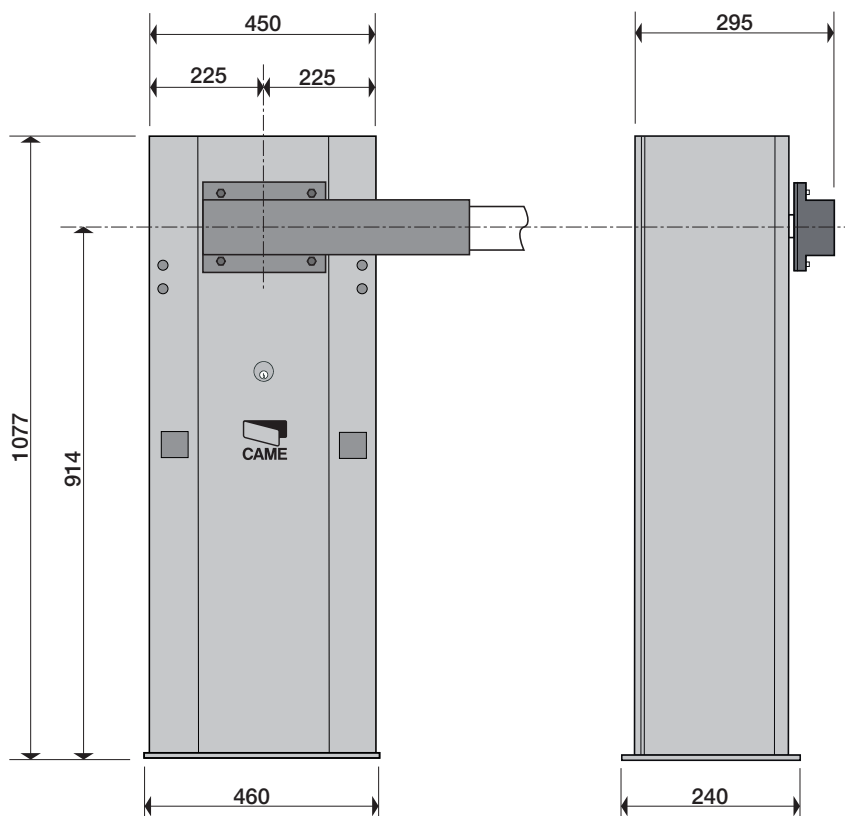
Limits to use

Model	G6000 - G6001
Maximum clearance width of the passage (m)	6.5

Technical data

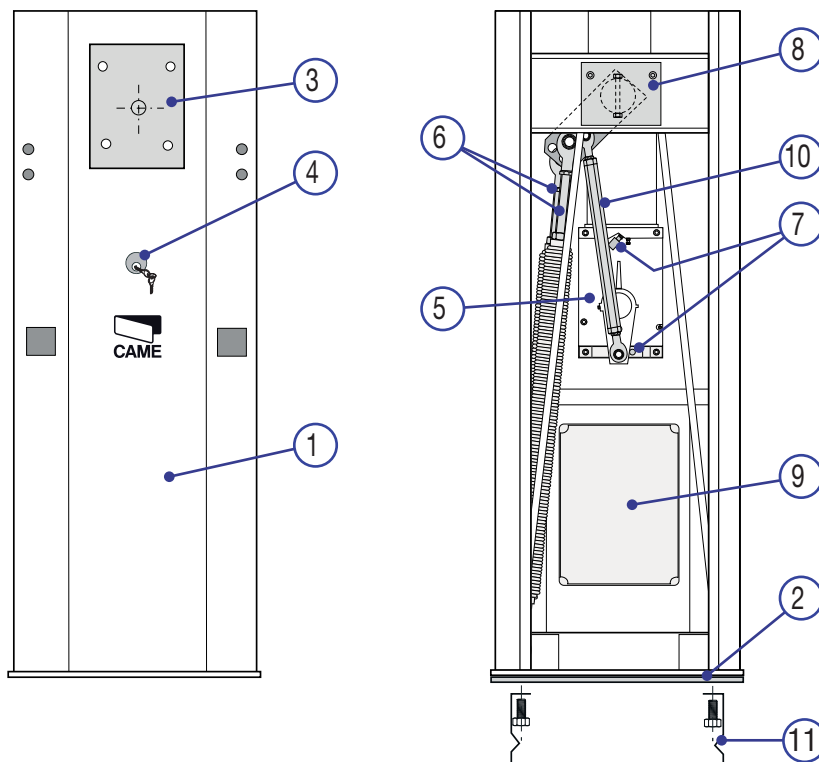
Model	G6000 - G6001
Protection rating (IP)	54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V)	24 DC
Max draw (A)	15
Power (W)	300
Torque (Nm)	600
Opening time (s)	4 to 8
Duty cycle	INTENSIVE SERVICE
Operating temperature (°C)	-20 to +55
Reduction ratio (i)	1/202
Apparatus class	I
Weight (Kg)	72

Dimensions



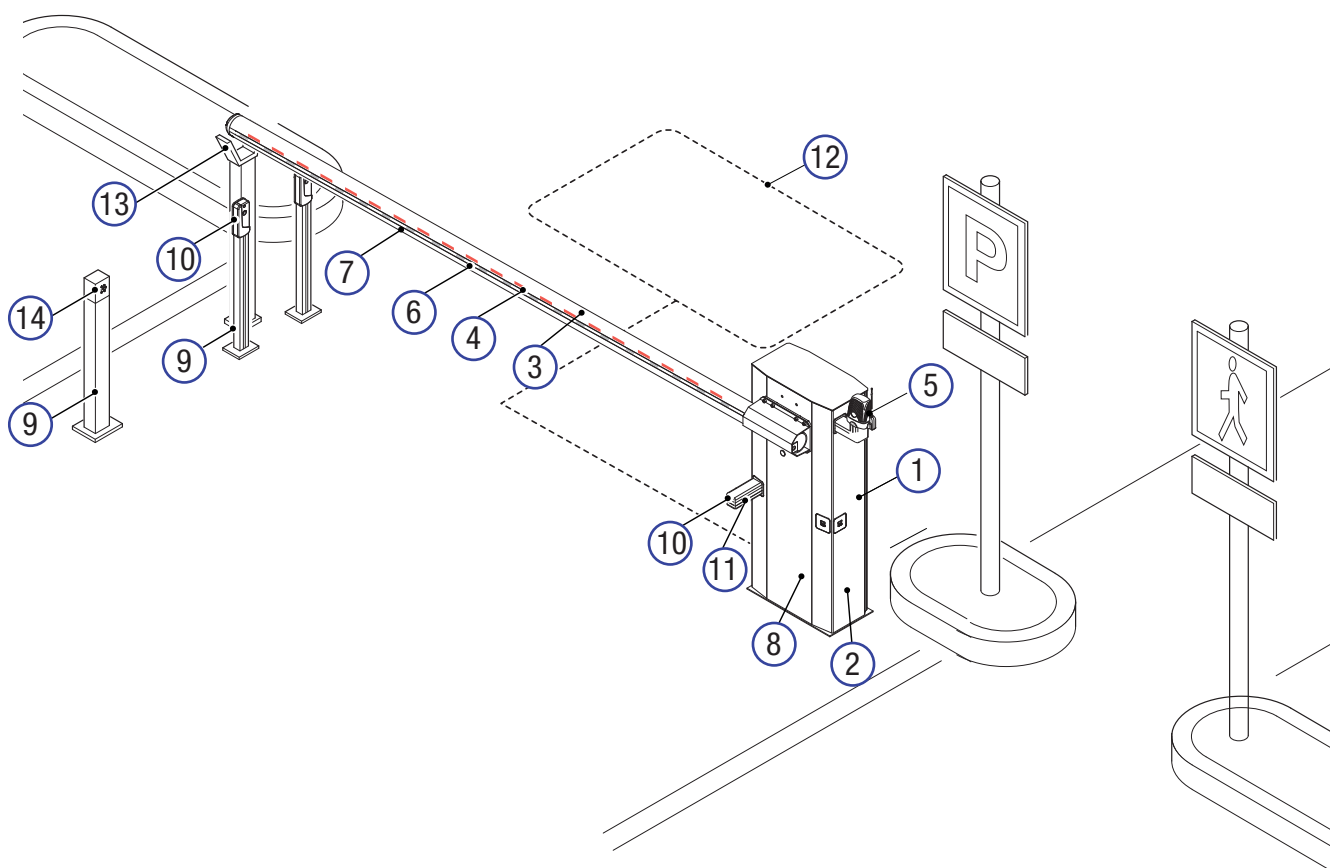
Description of parts

1. Cabinet
2. Anchoring plate
3. Boom flange
4. Release lock
5. Gearmotor
6. Balancing spring
7. Mechanical stops
8. Limit switch
9. Control panel
10. Settable transmission lever
11. Anchoring braces



Standard installation

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Barrier 2. Control panel 3. Aluminium boom 4. Reflective strips 5. Flashing light 6. Warning lights 7. Protective rubber 8. Emergency batteries | <ol style="list-style-type: none"> 9. Small post 10. Photocells 11. Photocell casing 12. Magnetic coil 13. Fixed rest 14. Control device (keypad selector, transponder sensor, etc.) |
|---|--|



GENERAL INSTRUCTIONS FOR INSTALLING

⚠ Installation must be carried out by expert qualified personnel and in full compliance with the regulations in force.

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

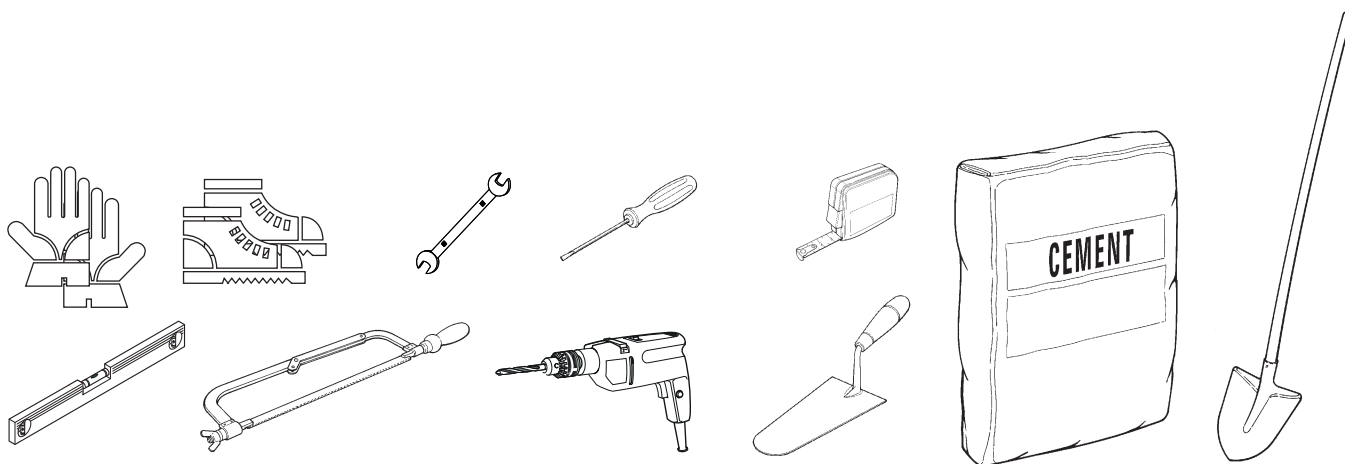
Preliminary checks

⚠ 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 case (that provide continuance to the protective circuit) are fitted with extra insulation as compared to the other conductive 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 need for installation at hand to work in complete safety and compliance with the current regulations. The following figure shows some basic equipment needed by the installer.



Types of cable and minimum sizes

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 connections that require several, sequential loads, the sizes given in the table must be re-evaluated based on actual power draw and distances. When connecting products that are not specified in this manual, please refer to the documentation provided with said products.

INSTALLATION

⚠ The following illustrations are mere examples. Consider that the space available for 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.

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

During set-up and installation, the barrier could be unstable and tip over. Be careful and do not lean on it until it is fully fastened.

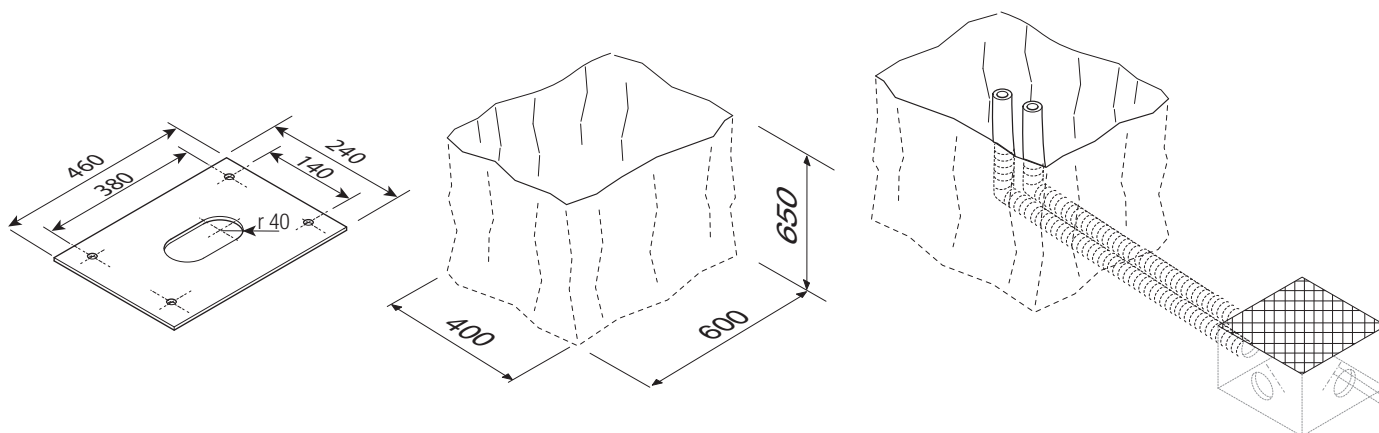
Preparing the fastening plate

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

Dig a hole for the foundation frame.

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

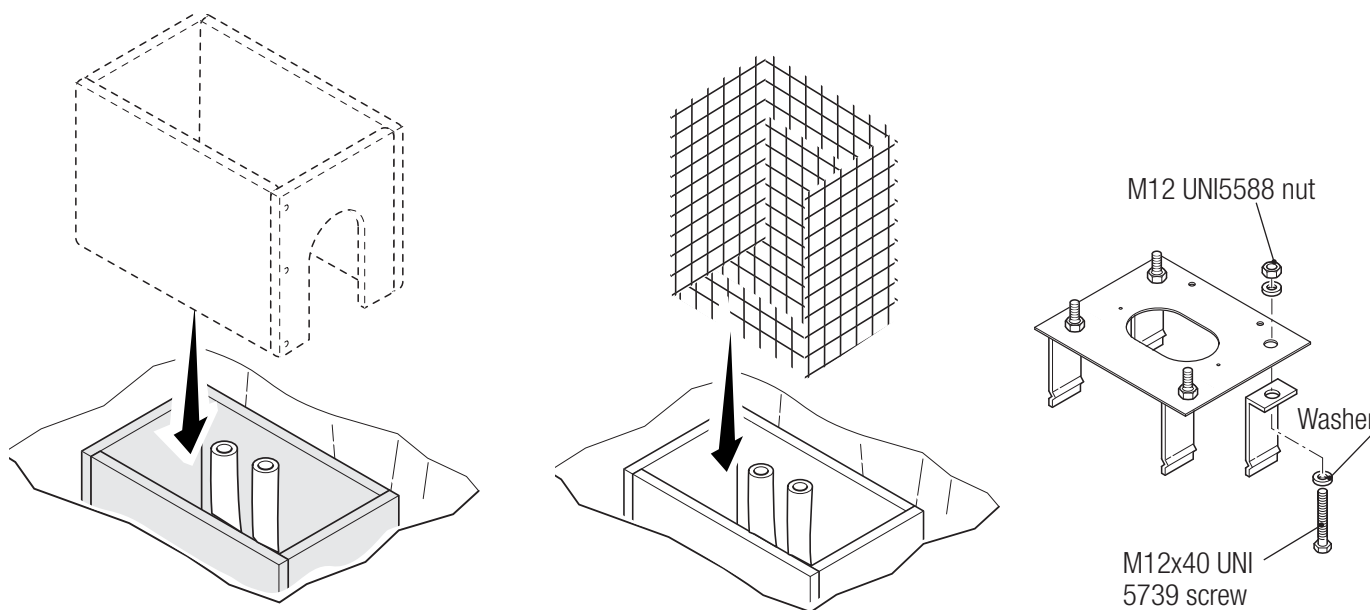
📖 The number of tubes depends on the type of system and the accessories you are going to fit.



Prepare 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.

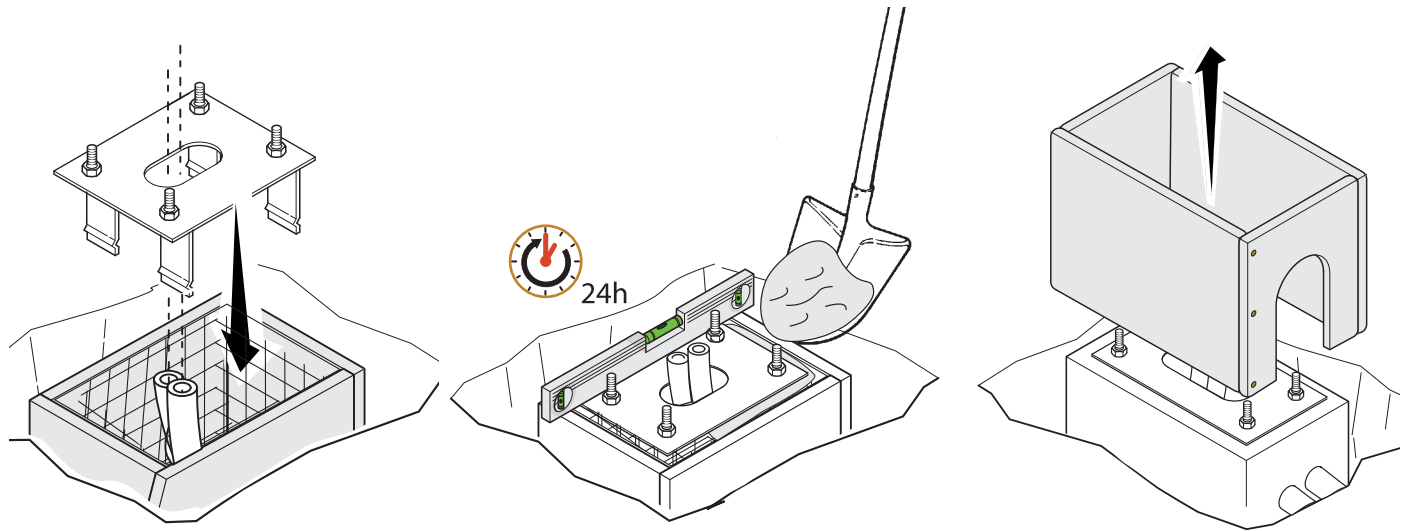


Place the plate over the iron cage.

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.

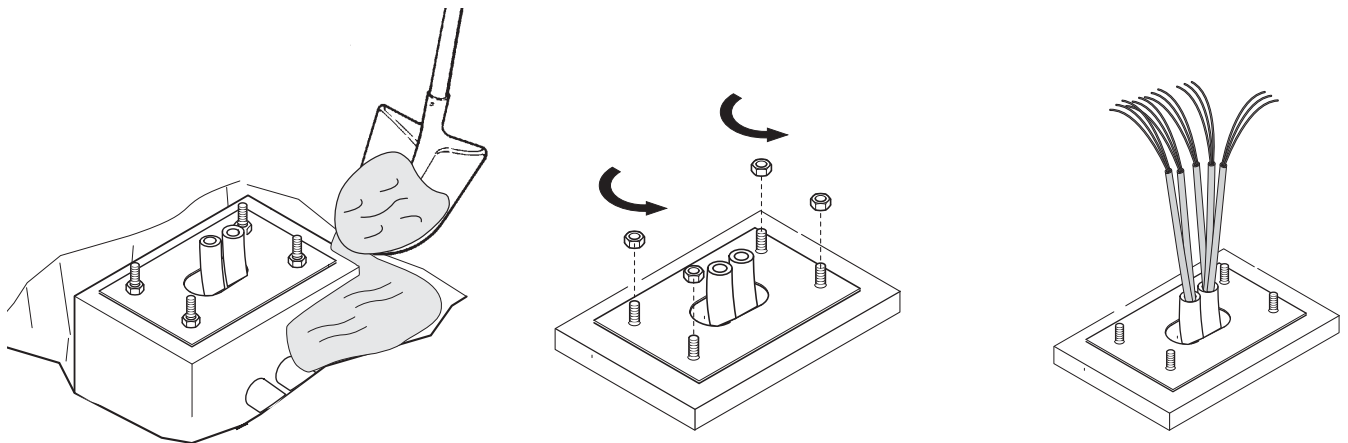
Remove the foundation frame.



Fill the hole with earth around the concrete block.

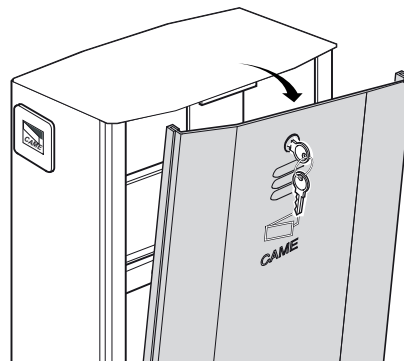
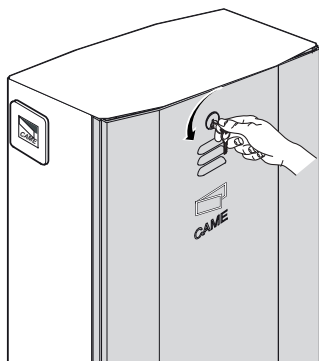
Remove the nut and washer from the bolts.

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



Preparing the barrier

Put the key in the lock and turn it anti-clockwise. Then remove the inspection hatch.



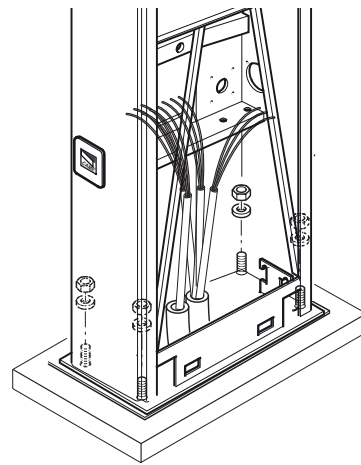
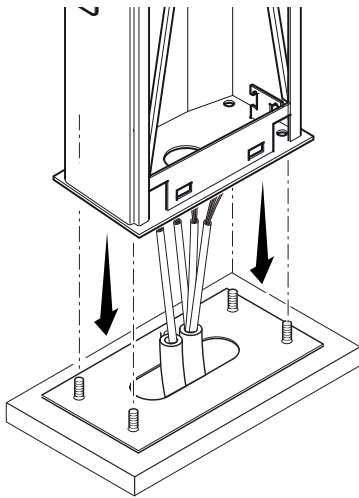
⚠ **Caution!** The barrier is set up for installing on the left.

If installing on the right, request the documentation from your local retailer or contact Came in your country (see the last page or visit www.came.com)

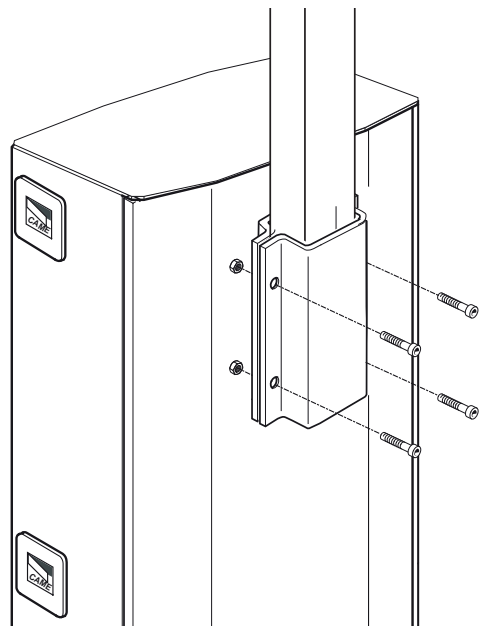
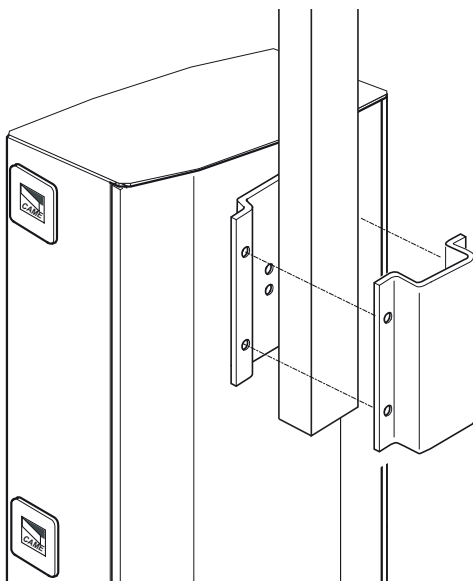


Installing the barrier

📖 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.

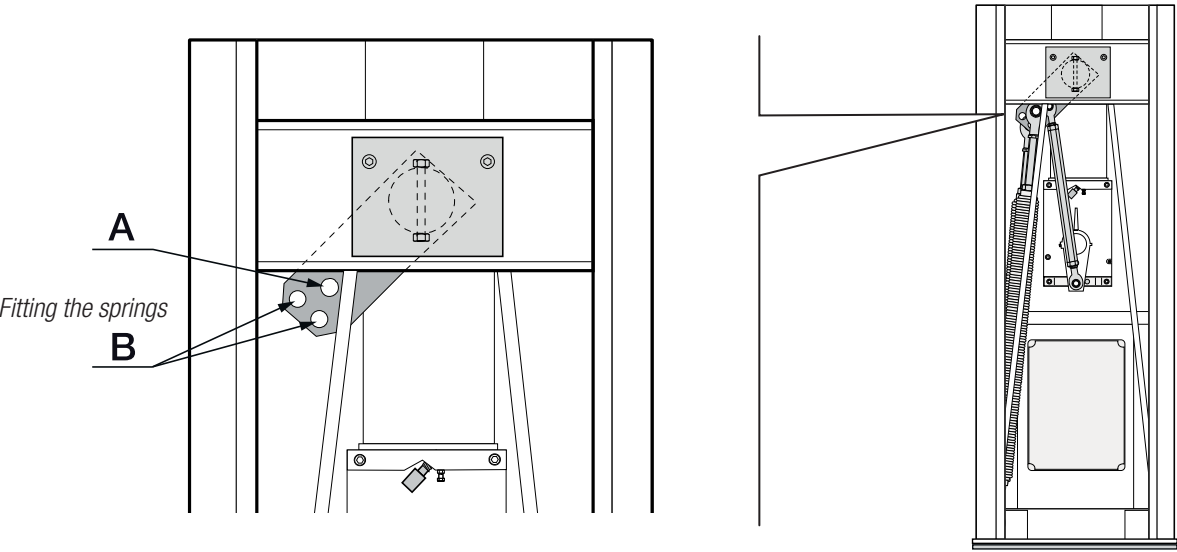


Put the boom between the plate and the attaching flange and fasten it using the screws.

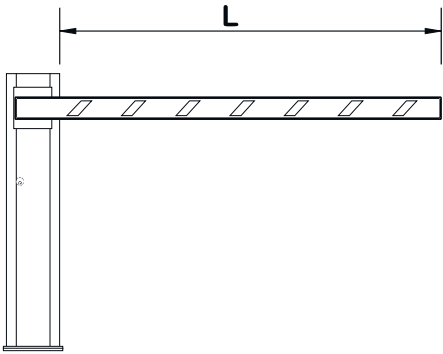


Balancing the boom

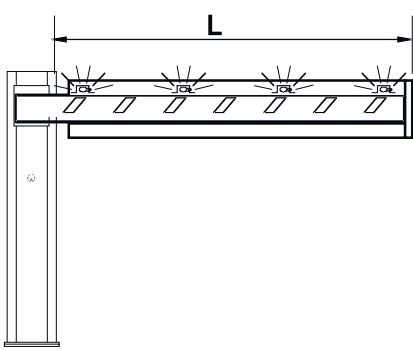
The G6000 barrier is supplied with both the springs fitted in position B.
Depending on the final configuration of the barrier (see figures), it may be necessary to use one or both of the springs, or to change the fixing position (see table below).



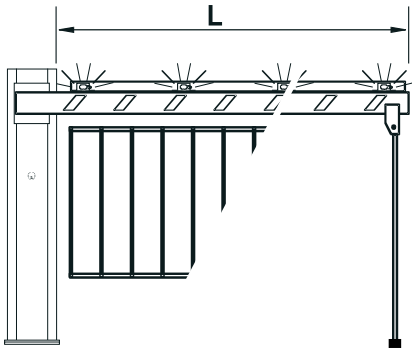
Boom ①



Boom with warning lights ②

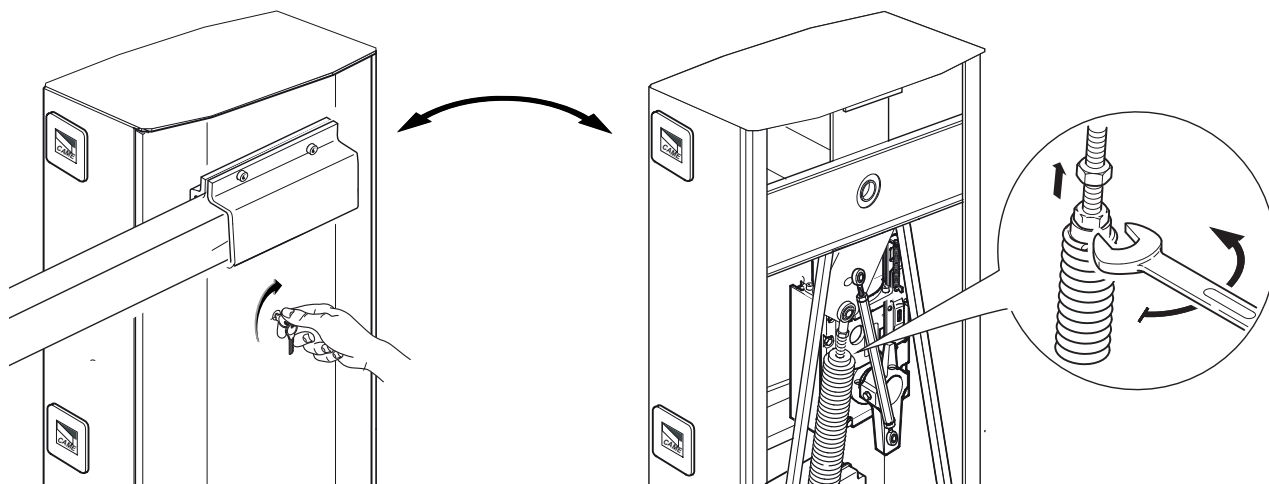


Boom with warning lights and skirt or swing rest ③

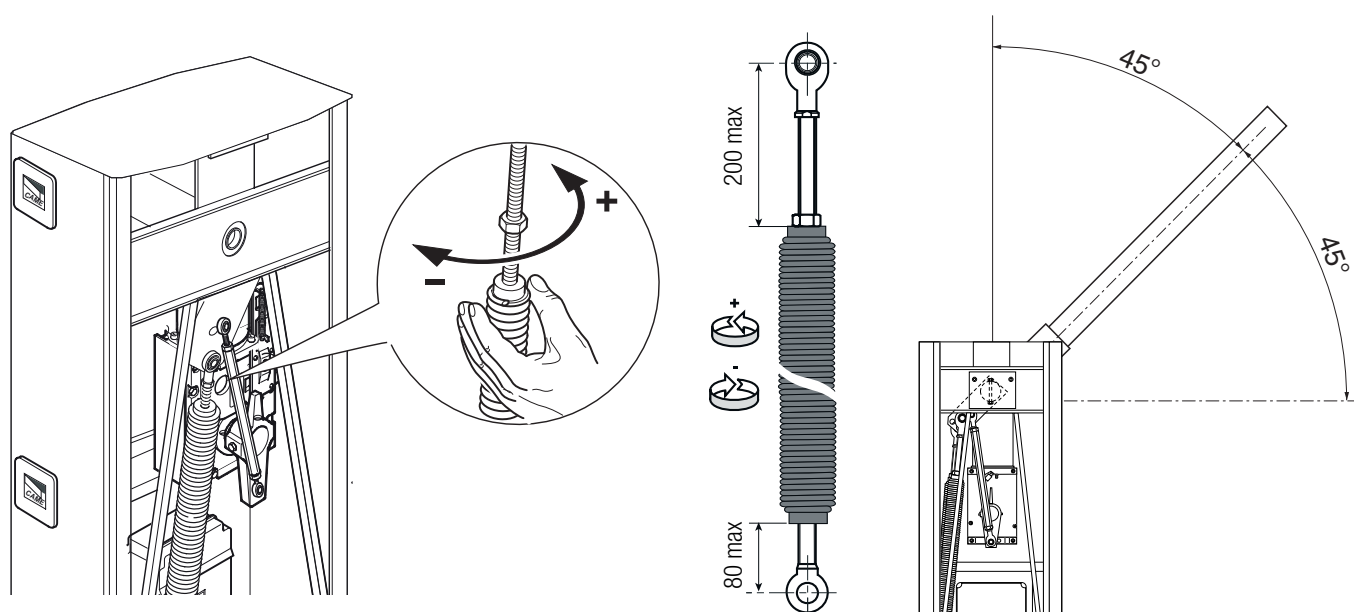


Boom size	< 4	< 5	< 6	< 6.5
① Boom	A	A	B	AB
② Boom with warning lights 001G0603	A	B	AB	-
Boom with warning lights and skirt G0465 or swing rest G02808③	B	AB	BB	-

To balance the boom accurately, release the gearmotor and loosen the rod nut.



Manually turn the spring to increase or reduce the traction. The boom should stabilize at 45°.

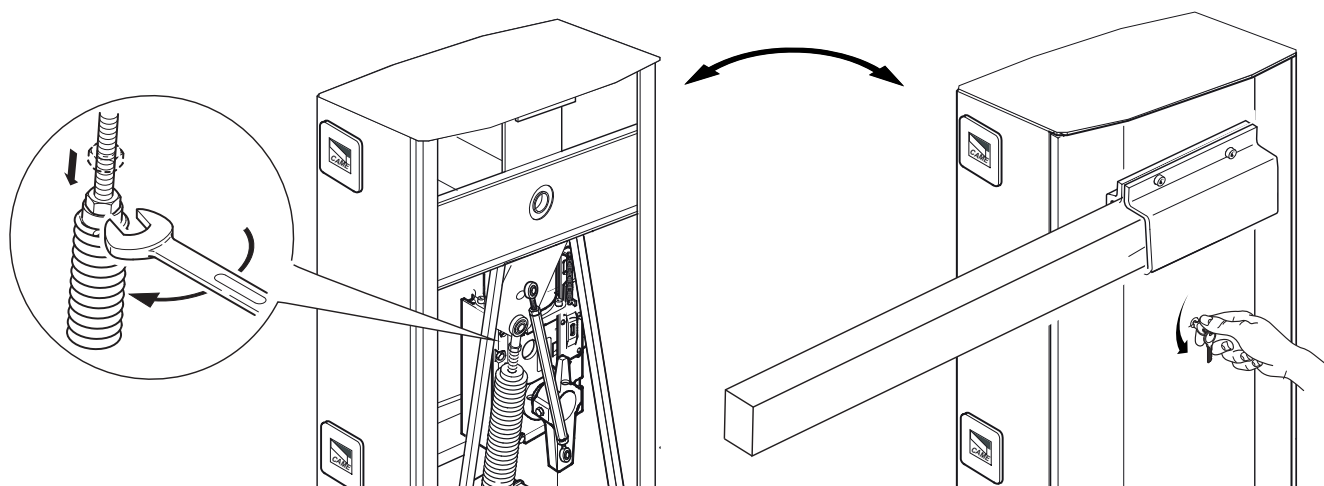


Fasten the rod nut and lock the gearmotor again.

Note: check the proper working state of the spring:

- with the boom raised vertically, the spring is not taut;
- with the boom lowered horizontally, the spring is taut.

⚠ 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 board and control devices: 24 V AC/DC.

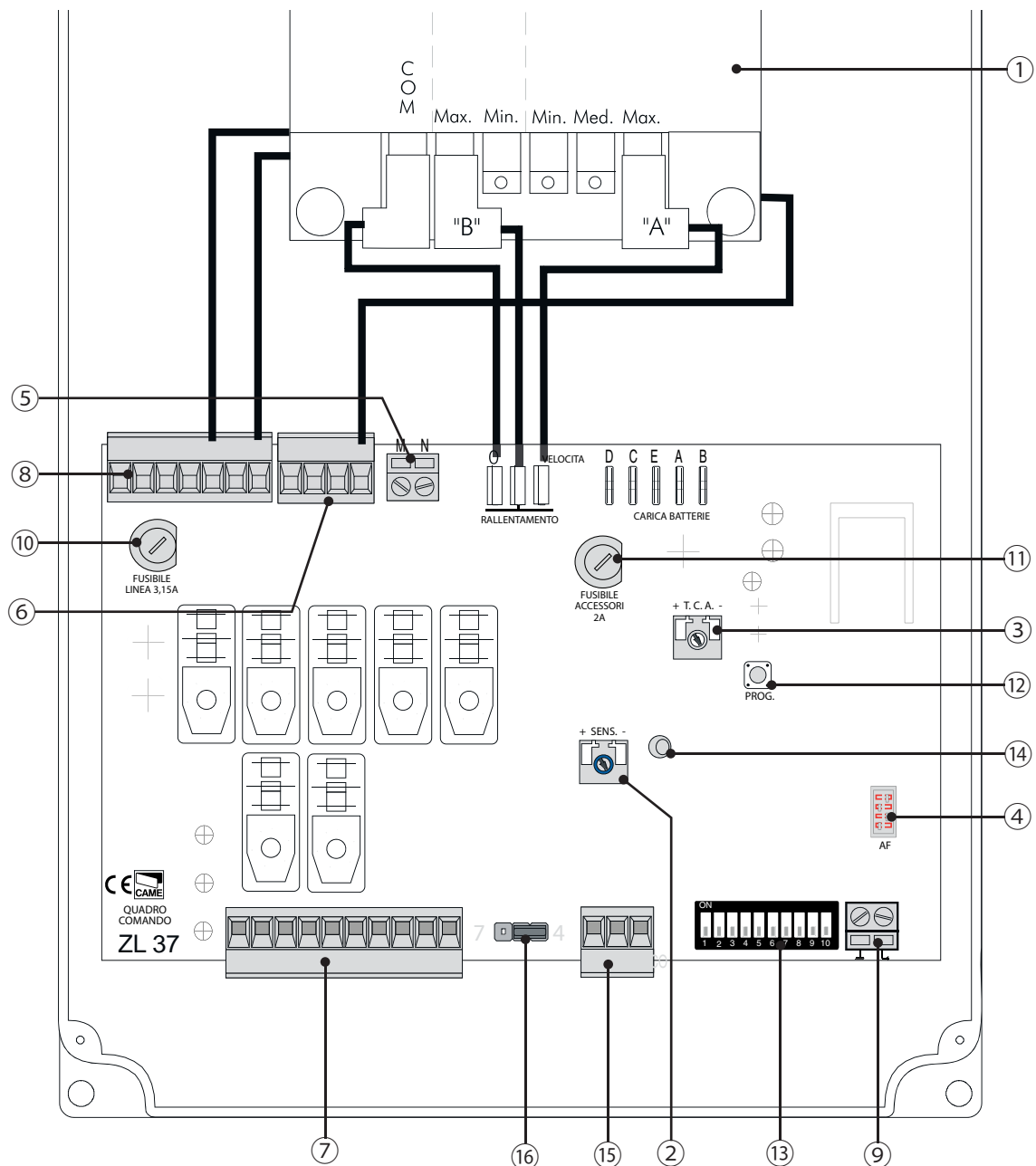
Use dipswitches to set functions and the trimmer for adjustments.

All connections are quick-fuse protected.

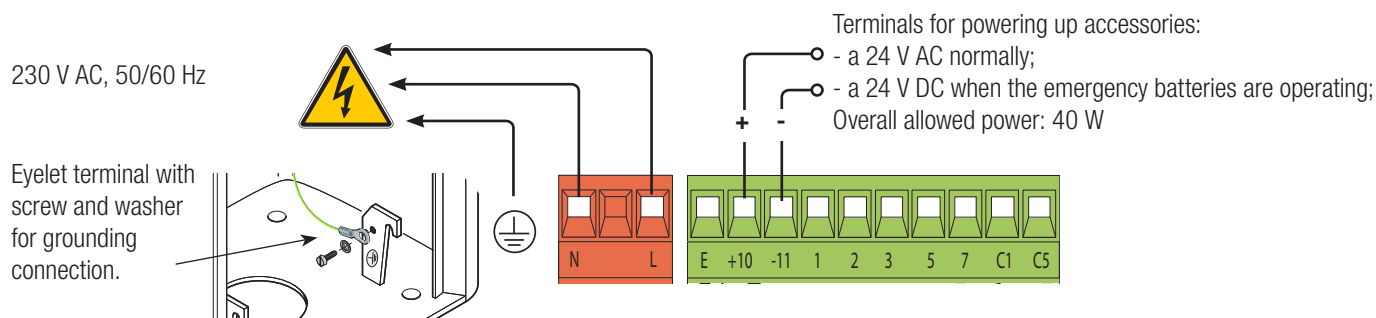
Fuses	ZL37
LINE - Line	3.15 A-F
ACCESSORIES - Accessories	2 A-F

Description of parts

- | | |
|------------------------------|-------------------------------------|
| 1. Transformer | 9. Antenna terminal |
| 2. SENS trimmer | 10. Line fuse |
| 3. ACT trimmer | 11. Accessories fuse |
| 4. AF card connector | 12. Save code button |
| 5. Terminal for gearmotors | 13. Dipswitch |
| 6. Endstop terminals | 14. Alert LED |
| 7. Control devices terminals | 15. Terminals for paired connection |
| 8. Transformer terminals | 16. Jumper |



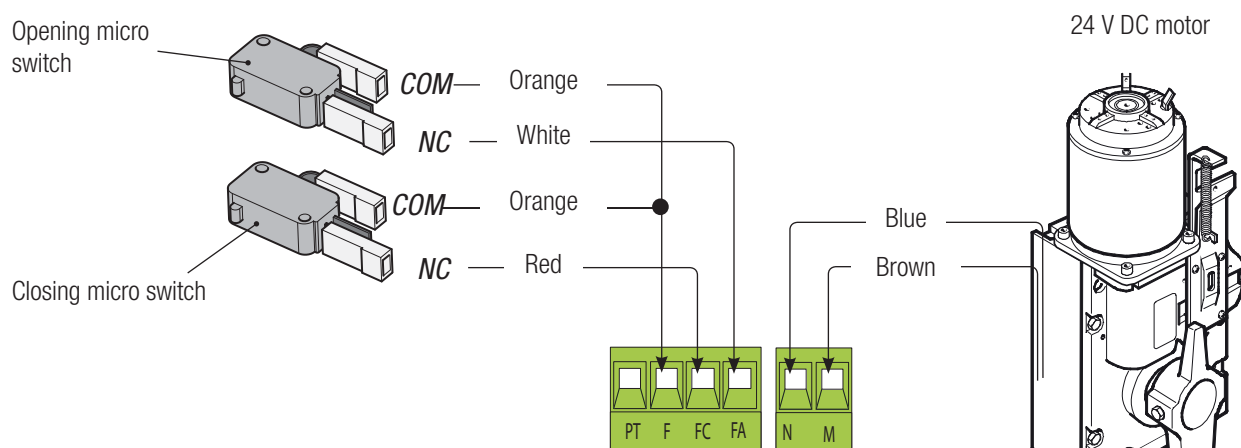
Power supply



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.



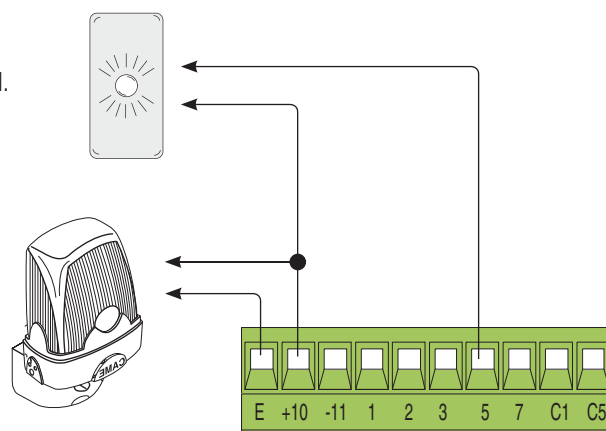
Signalling devices

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 dipswitch 3



Command and control devices

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

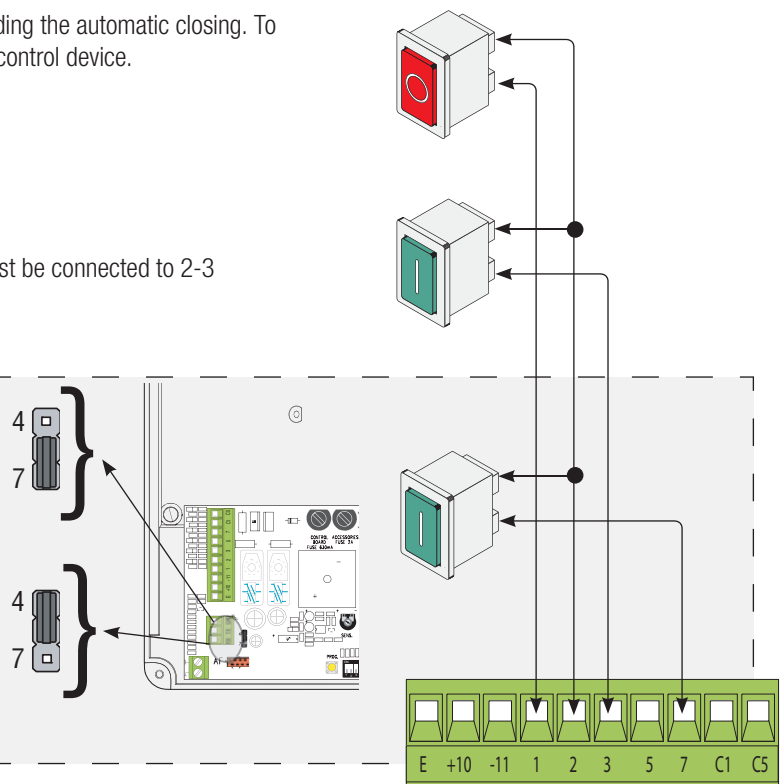
If unused, set dipswitch 9 to ON.

OPEN function from control device with N.O. contact.

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

OPEN or OPEN-CLOSE-INVERT (step-by-step) function from control device (N.O. contact, see dipswitch 2).
Set the jumper as shown in the figure.

CLOSE function from control device (N.O. 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

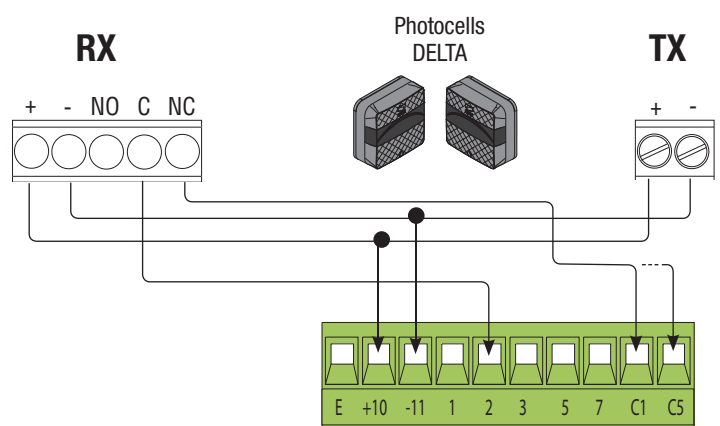
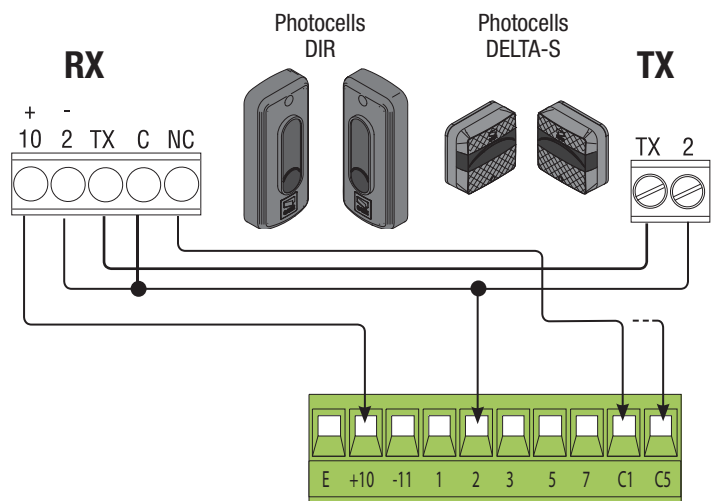
Configure contact C1 and/or C5 (N.C.), input for safety devices such as photocells, which comply with EN 12978 regulations.

C1 reopening while closing. When the boom is closing, opening the contact causes the motion 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 dipswitch 8 to ON.



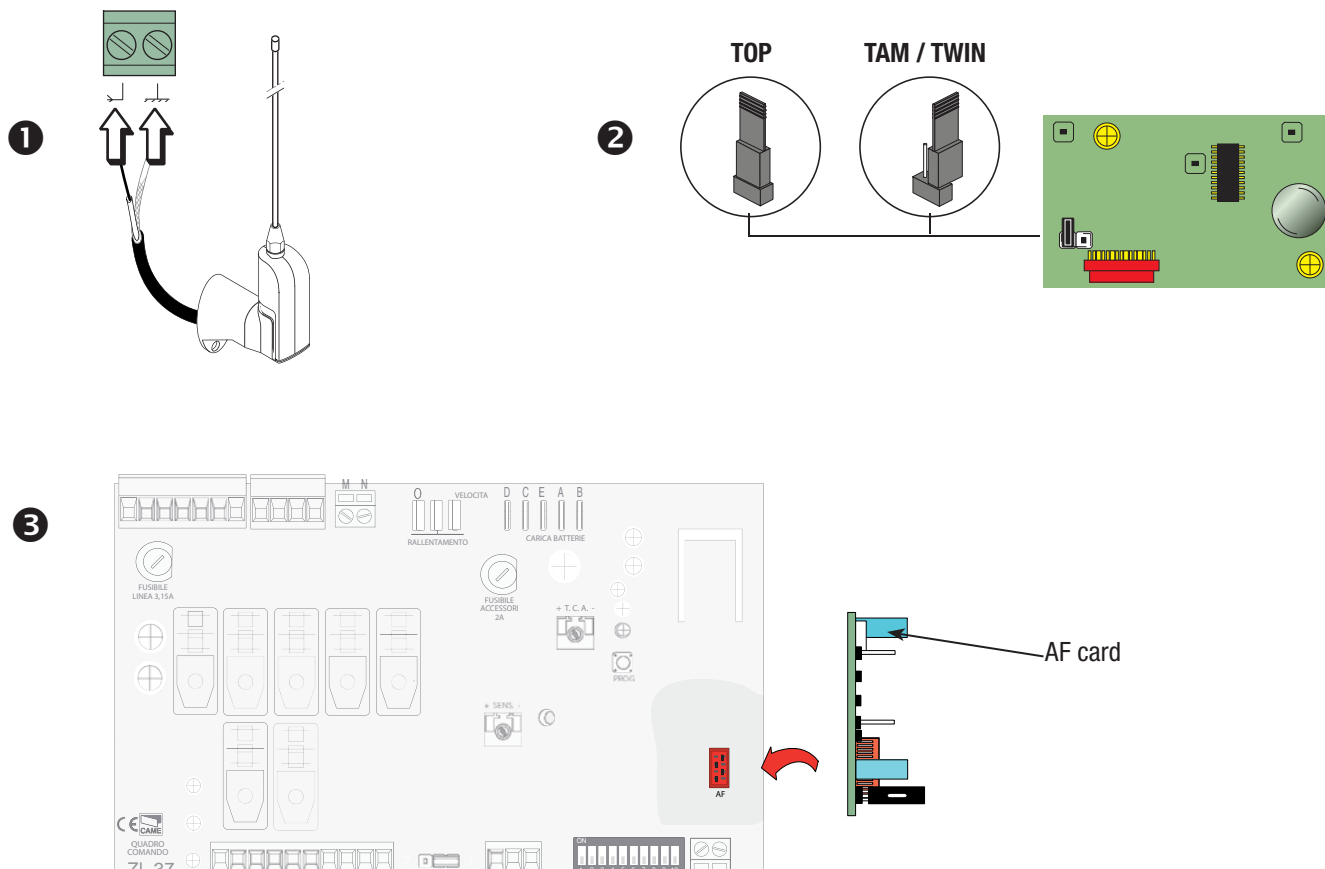
Activating the radio control

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.

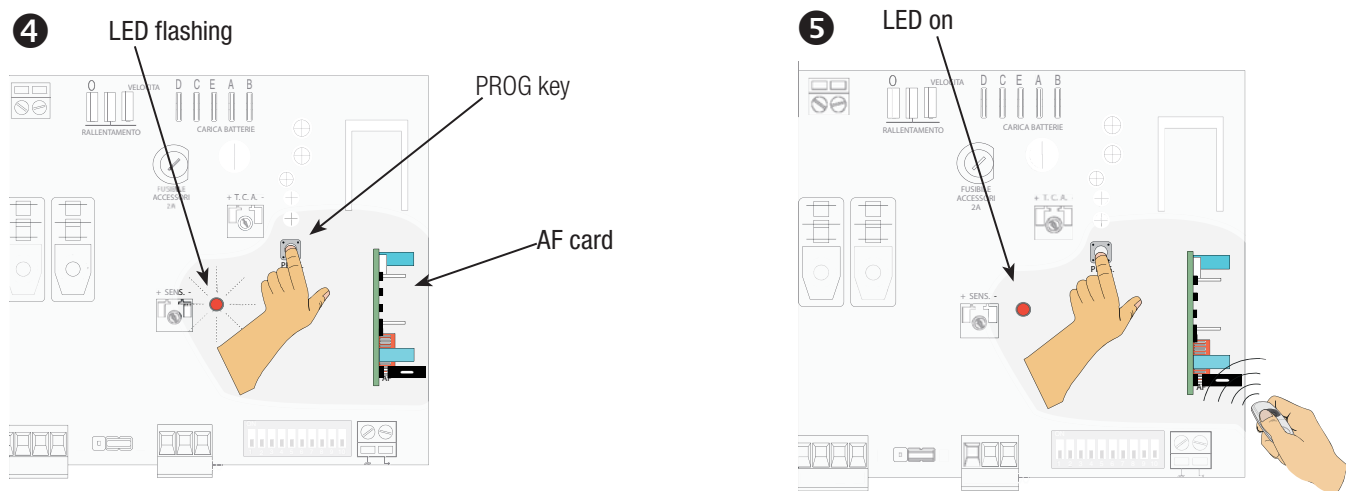
Fit the AF card into the control board connector ❸.

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



Press and hold the PROG programming button on the control board. The programming LED flashes ❹.

Press any key on the transmitter you want to save. The LED stays on to indicate that saving was successful ❺.

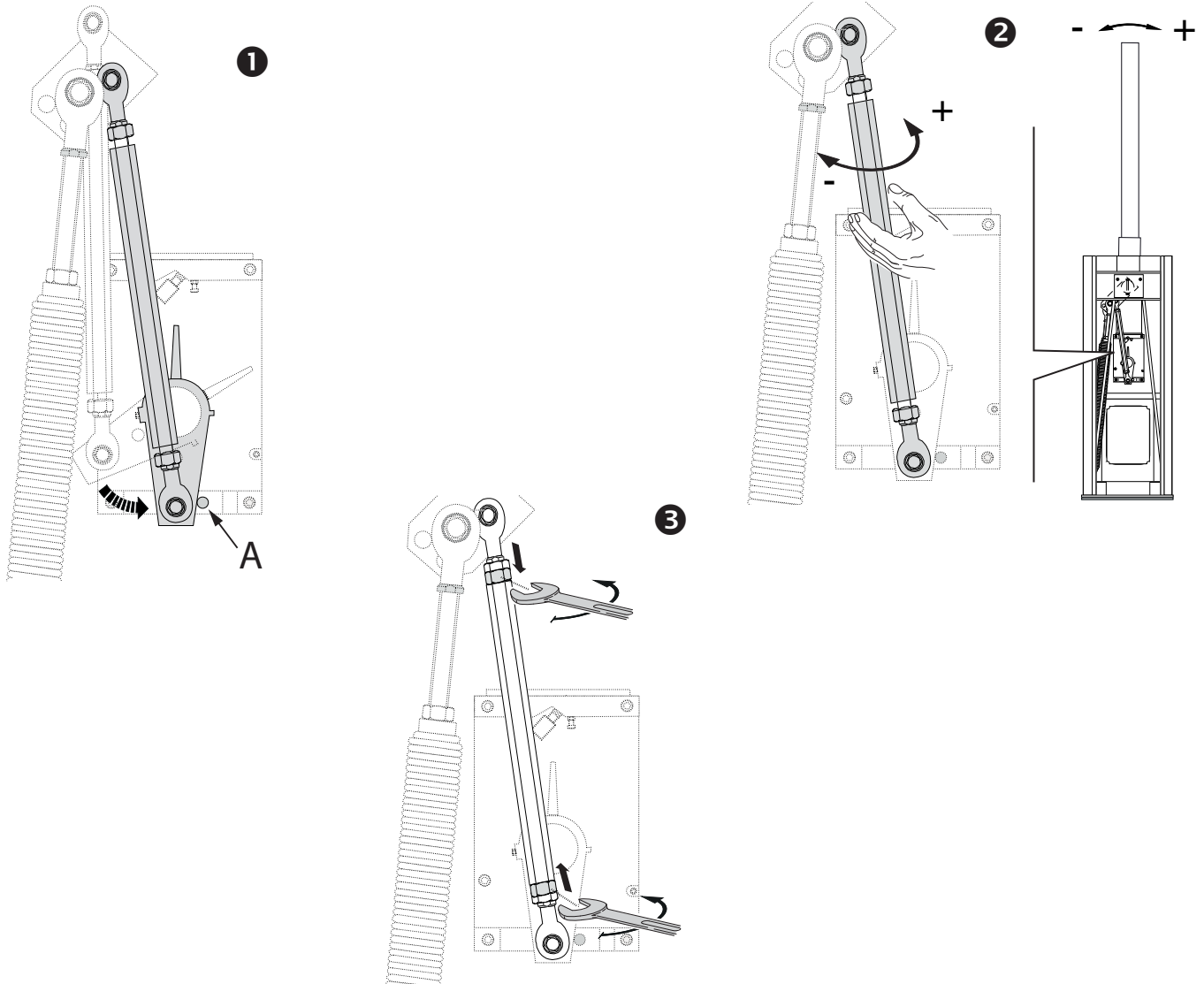


To change the code later, repeat the above sequence.

Establishing the limit-switch points

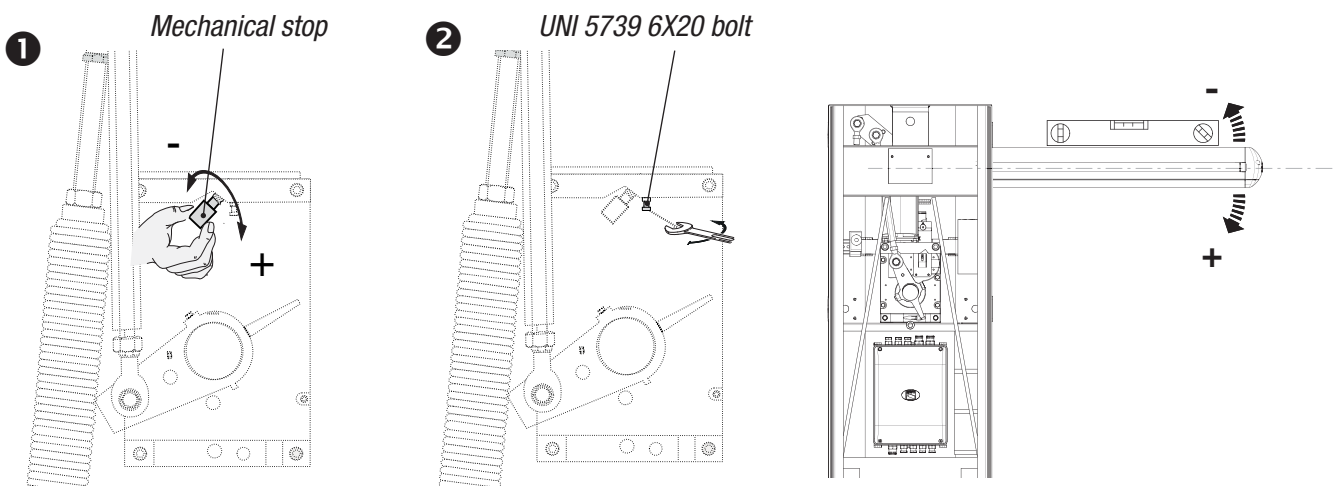
For opening:

- release the gearmotor and lift the boom until the motor shaft touches stop **A** on the gearmotor case **1**;
- turn the settable transmission lever clockwise or anti-clockwise to achieve a vertical position **2**;
- tighten the nuts to lock the transmission lever **3**.

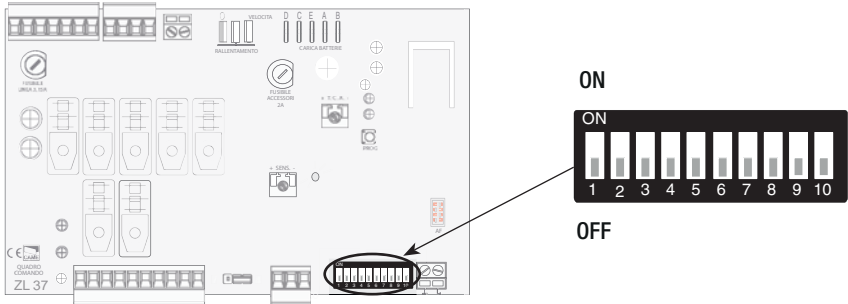


For closing:

- with the boom lifted, turn the mechanical closing stop clockwise or anti-clockwise to achieve a horizontal position **1**;
- tighten the hexagonal nut to lock the stop **2**;
- lock the motor again.

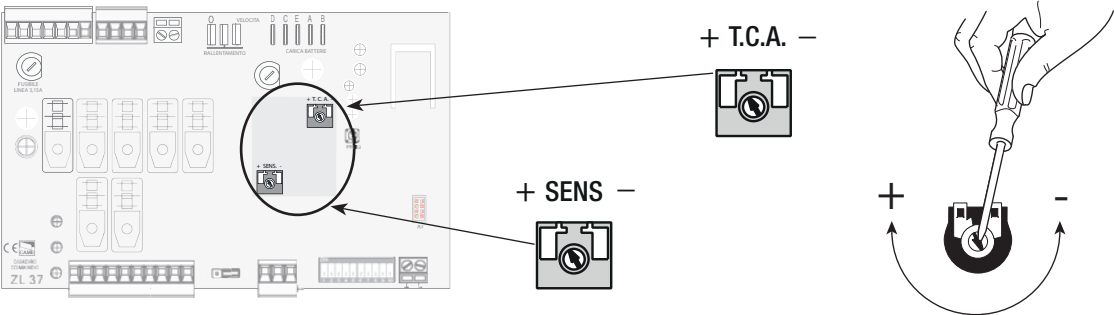


Programming the features



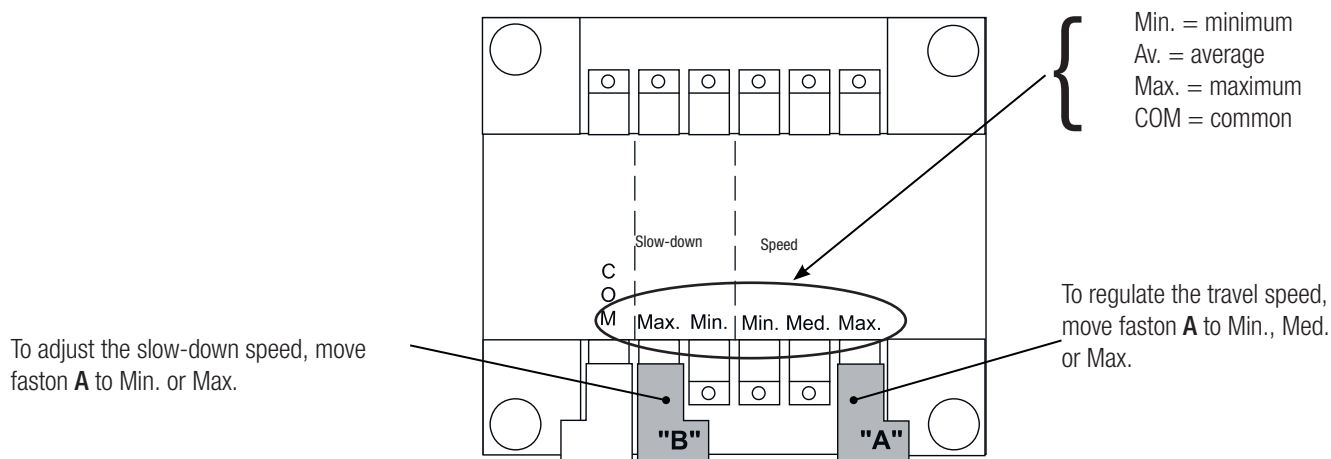
Dipswitch	Description of functions
1 ON	AUTOMATIC CLOSING (1 OFF - deactivated)
2 ON	OPEN from button 2-7 and/or from transmitter (with AF card fitted)
2 OFF	OPEN-CLOSE-INVERT from the button on 2-7 and/or from a transmitter (with AF card fitted)
3 ON	24 V output on 10-E during the boom movement and when in closed position
3 OFF	24 V output on 10-E during the boom movement
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



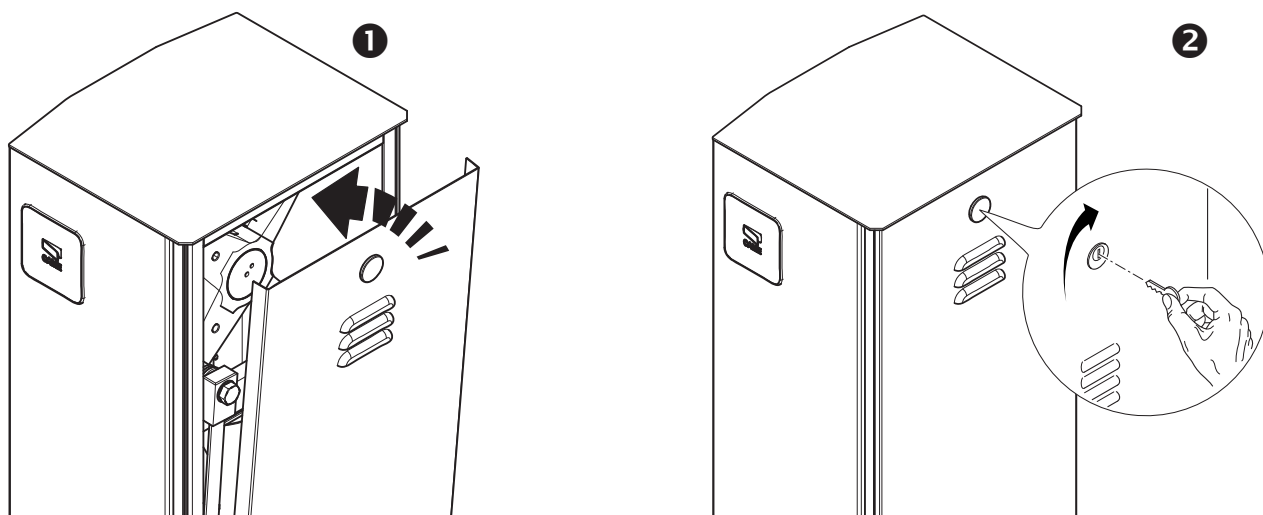
Trimmer	Description of functions
SENS	Sensibility It adjusts the obstruction detection sensitivity during gate movement. Minimum sensitivity (-) or maximum sensitivity (+).
A.C.T.	Automatic Closing Time It adjusts the barrier waiting time when it is open. Once this time elapses, a closing manoeuvre is automatically performed. The waiting time may be adjusted to between 1 and 120 seconds

Adjusting speed



FINAL OPERATIONS

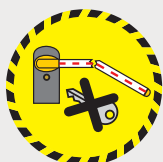
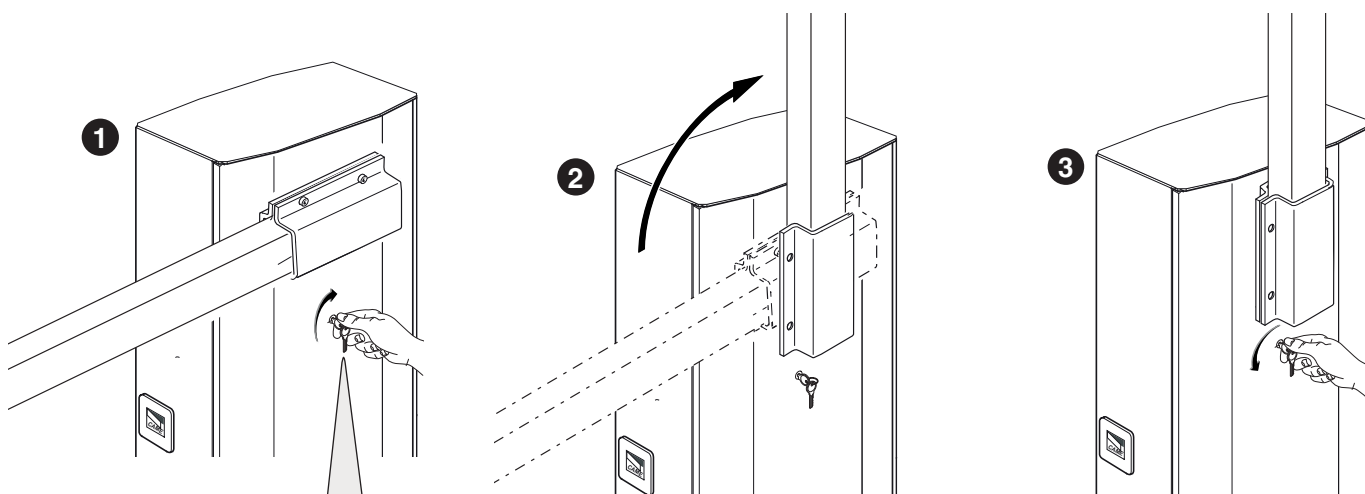
Once the electrics have been connected and the system powered up, replace the inspection hatch **1**, lock using the key **2**.



RELEASING THE BOOM

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

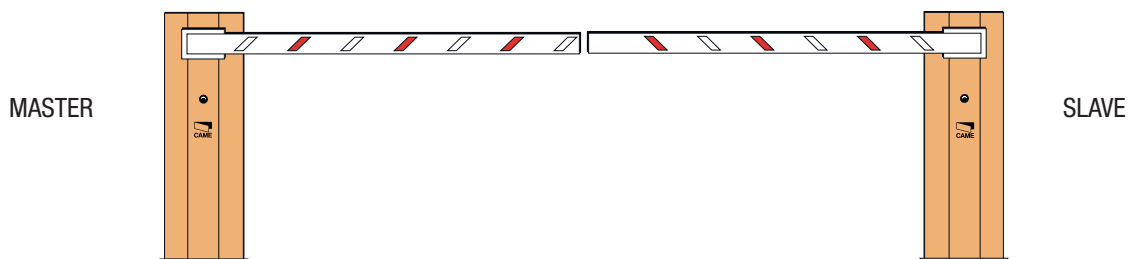
Fit the key into the lock and turn it clockwise **1**. Manually lift the boom and lock it again by turning the key counter clockwise **2**.



⚠ **Caution!** The release operation is potentially hazardous for users when the taut springs no longer guarantee correct balance. This may occur if the boom is badly fastened, ripped out or broken during an accident, for example. This could lead to a sudden rotation of the boom attachment and/or of the boom itself.

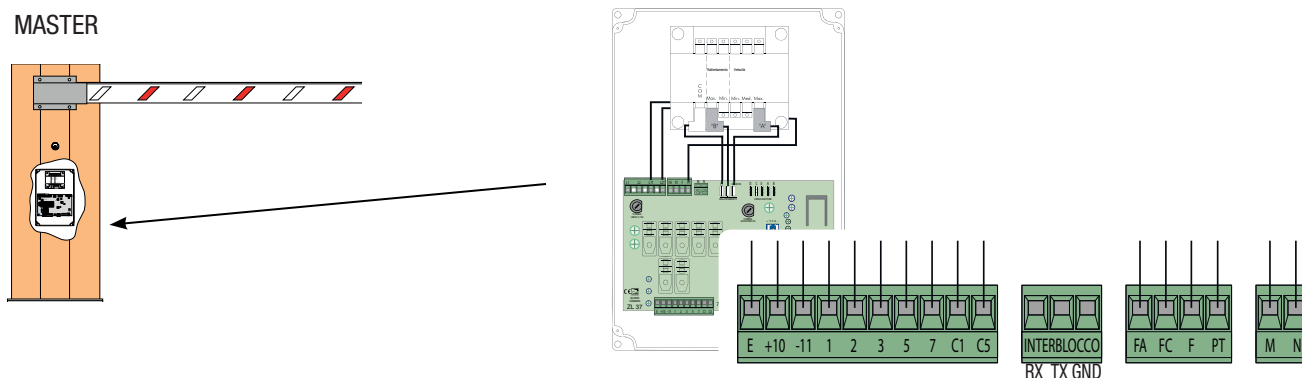
PAIRED CONNECTION WITH A SINGLE COMMAND

Establish which will be the **Master** barrier (i.e. the motor that controls both barriers) and which will be the **Slave** barrier (i.e. the motor piloted by the Master).



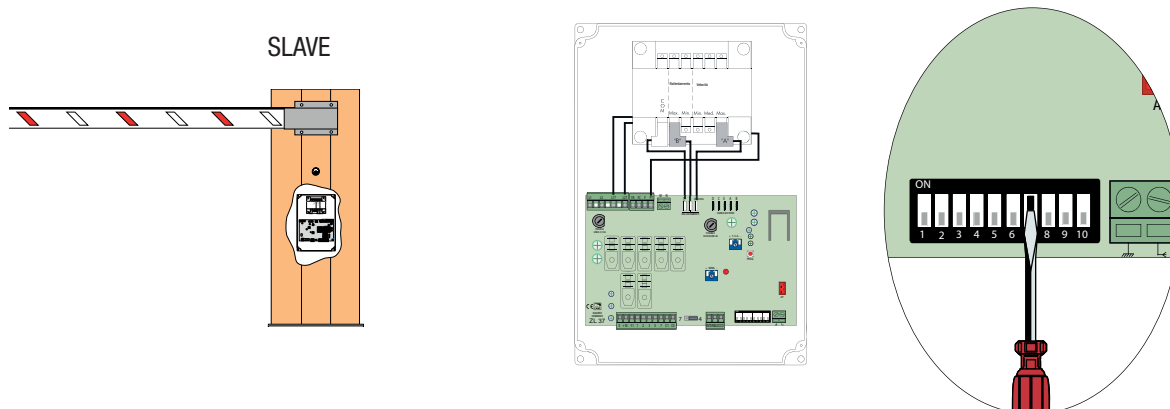
On the electronic board of the MASTER barrier, make the necessary electrical connections, activate the radio control, and program the functions and settings.

MASTER

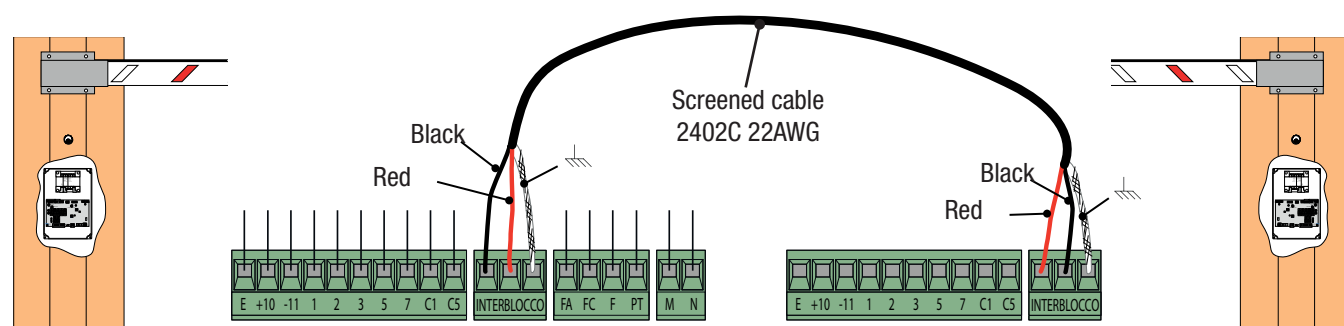


On the control board of the SLAVE barrier, connect the power supply to L-N and the flashing light to 10-E, set dipswitch 7 to ON and adjust the travel and slow-down speeds just as on the control board of the MASTER barrier.

SLAVE



Connect the two control boards using the interlock terminals (RX-TX-GND) as shown in the figure.



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 N.C. contacts are open
The barrier does not work with the transmitter	2-14-16	6 - Deactivate the MASTER-SLAVE function
The boom direction of travel is inverted	7-18	7 - Check the boom balance 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 ratio between boom and applied accessories
The boom starts slow	7	16 - Save the radio code again
		18 - Adjust the sensitivity
		22 - Enter or duplicate the same code for all transmitters
		23 - Activate the photocells
		24 - Connect the photocells in series and not in parallel
		25 - Check the batteries
		26 - Respect the photocell's power supply polarities

MAINTENANCE LOG

Periodic maintenance

⚠ Before doing any maintenance, disconnect the power supply, to prevent any hazardous situations caused by the boom moving accidentally.

[illegible]

Extraordinary maintenance

⚠ The following table is for logging any extraordinary maintenance jobs, repairs and improvements performed by specialized contractors.

📖 Any extraordinary maintenance jobs must be done only by specialized technicians.

Extraordinary maintenance log

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 _____ _____ _____	

DISMANTLING AND DISPOSAL

👉 CAME CANCELLI AUTOMATICI S.p.A. employs a certified Environmental Management System at its premises, compliant with the UNI EN ISO 14001 standard to ensure the environment is safeguarded.

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 THE PRODUCT RESPONSIBLY

♻ DISMANTLING AND DISPOSAL

Our products are made of various materials. Most of these (aluminium, plastic, iron, electrical cables) are classified as solid household waste.

They can be separated for recycling or disposed of at authorized waste treatment plants.

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

They should therefore be removed and given to authorised recycling centres for proper disposal.

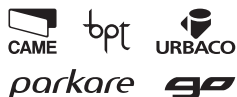
Before disposal, it is always advisable to check the specific laws that apply in your area.

DISPOSE OF THE PRODUCT RESPONSIBLY

REFERENCE REGULATIONS

The product complies with the relevant directives in force.

CAME
safety & comfort



CAME S.p.A.

Via Martiri Della Libertà, 15

31030 Dosson di Casier
Treviso - Italy

📞 (+39) 0422 4940

📠 (+39) 0422 4941

Via Cornia, 1/b - 1/c

33079 Sesto al Reghena
Pordenone - Italy

📞 (+39) 0434 698111

📠 (+39) 0434 698434

www.came.com