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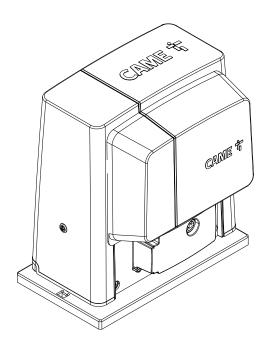
Sliding gate operator BX series







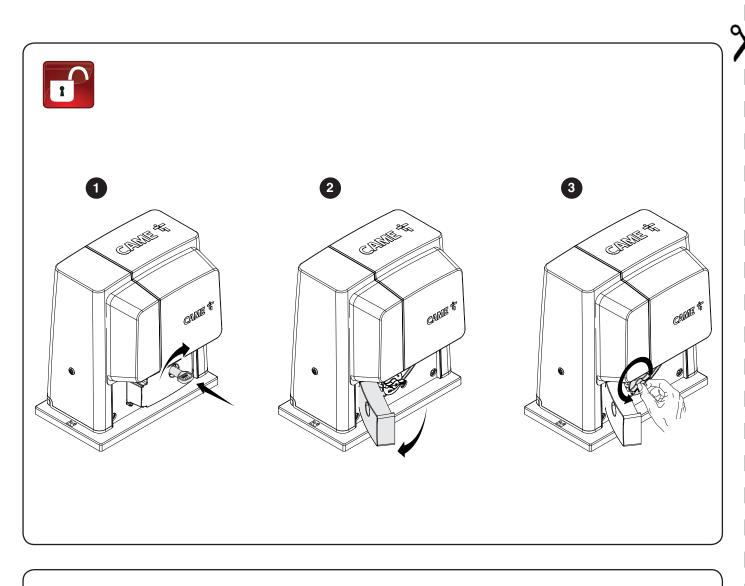


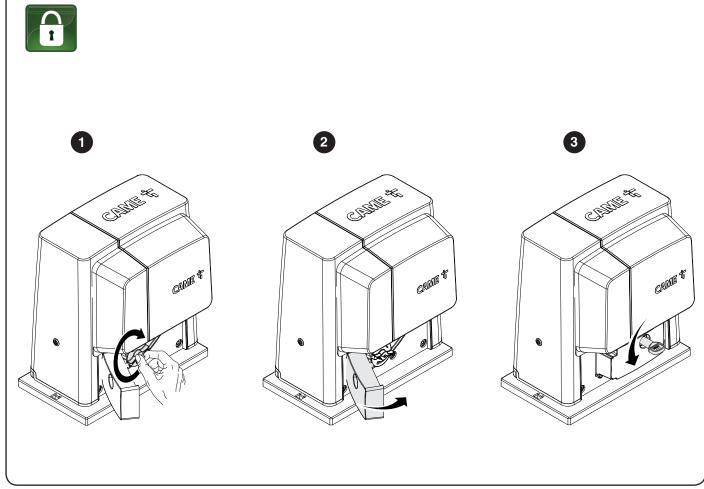


BX704AGS / 708AGS BX708RGS

INSTALLATION MANUAL

EN English

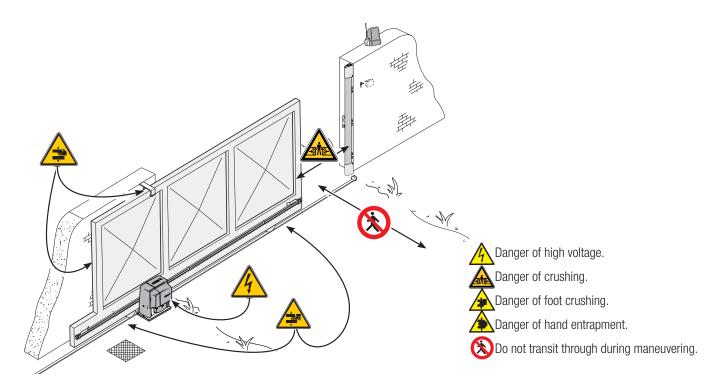




△ WARNING! Important safety instructions. Follow all of these instructions. Improper installation can cause serious bodily harm. Before continuing, also read the general precautions for users.

This product must only be used for its specifically intended purpose, any other use may be hazardous, Came S.p.A. is not liable for any damage caused by improper, wrongful and unreasonable use. • This manual's product is defined by machinery directive 2006/42/CE as "partly-completed machinery". Partly-completed machinery is a set that almost constitutes a machine, but which, alone, cannot ensure a clearly defined application. Partly-completed machinery must only be incorporated or assembled to other machinery or other partly-completed machinery or apparatuses to build machinery that is regulated by Directive 2006/42/CE. The finalized installation must comply with European Directive 2006/42/CE and with currently applicable European standards. • Given these considerations, all procedures stated in this manual must be exclusively performed by expert, qualified staff • The manufacturer declines any liability for using non-original products; which would result in warranty loss • Keep this manual inside the technical folder along with the manuals of all the other devices used for your automation system. • Make sure the temperature range shown on the product is suitable for the climate where it will be installed • Laying the cables, installation and testing must follow state-of-the-art procedures as dictated by regulations • If the power-supply cable is damaged, it must be immediately replaced by the manufacturer or by an authorized technical assistance center, or in any case, by qualified staff, to prevent any risk • During all phases of the installation make sure you have cut off the mains power source. • The operator cannot be used with gates fitted with pedestrian doors, unless its operation can be activated only when the pedestrian door is in safety position. • Make sure that people are not entrapped between the gate's moving and fixed parts due to the gate's movement. Before installing the operator, check that the gate is in proper mechanical condition, that it is properly balanced and that it properly closes: if any of these conditions are not met, do not continue before having met all safety requirements. • Make sure the gate is stable and the castors function properly and are well-greased, and that it opens and closes smoothly. • The guide rail must be well-fastened to the ground, entirely above the surface and free of any impediments to the gate's movement. • The rails of the upper guide must not cause any friction. • Make sure that opening and closing limiters are fitted • Make sure the operator is installed onto a sturdy surface that is protected from any collisions • Make sure that mechanical stops are already installed • If the operator is installed lower than 2.5 from the ground or from any other access level, fit any protections and signs to prevent hazardous situations. • Do not fit the operator upside down or onto elements that could yield to its weight. If necessary, add reinforcements to the fastening points • Do not install door or gate leaves on tilted surfaces • Check that no lawn watering devices spray the operator with water from the bottom up. • Any residual risks must be indicated clearly with proper signage affixed in visible areas. All of which must be explained to end users. • Suitably section off and demarcate the entire installation site to prevent unauthorized persons from entering the area, especially minors and children. Affix cautionary signs, such as the door plate, the gate plate, wherever needed and in plain sight.
 Use proper protections to prevent mechanical hazards when people are loitering around the machinery's range of action, for example to prevent finger crushing between the rack and pinion) • The electrical cables must run through the cable glands and must not touch any heated parts, such as the motor, transformer, and so on) • 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 Ill surcharge conditions • All opening controls must be installed at least 1.85 m from the perimeter of the gate's working area, or where they cannot be reached from outside the gate. • All switches in maintained action mode must be positioned so that the moving gates leaves, the transit areas and vehicle thru-ways are completely visible, and yet the switches must be also away from any moving parts • Unless the action is key operated, the control devices must be fitted at, at least, 1.5 m from the ground and must not be accessible to the public. • To pass the collision force test use a suitable sensitive safety-edge. Install it properly and adjust as needed. • Before handing over to users, check that the system is compliant with the 2006/42/CE uniformed Machinery Directive • Make sure the settings on the operator are all suitable and that any safety and protection devices, and also the manual release, work properly. • Affix a permanent tag, that describes how to use the manual release mechanism, close to the mechanism. • Make sure to hand over to the end user, all operating manuals for the products that make up the final machinery.

- The next figure shows the main hazard points for people -



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

The measurements, unless otherwise stated, are in millimeters.

DESCRIPTION

BX704AGS Operator (tested in compliance with EUROPEAN STANDARDS on shock forces) featuring a control board, movement control and obstruction detecting device plus mechanical limit-switches for sliding gates weighing up to 400 kg.

BX708AGS Operator featuring a control board, movement control and obstruction detecting device plus mechanical limit-switches for sliding gates weighing up to 800 kg.

INTENDED USE

The BX704AGS operator is designed to power sliding gates in single homes; whereas the BX708AGS is also suitable for apartment blocks.

Do not install of use this device in any way, except as specified in this manual.

INTENDED USE

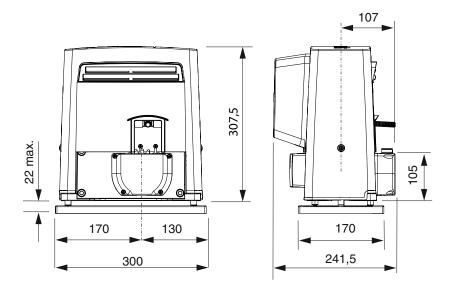
Model	BX704AGS	BX708AGS BX708RGS
Standard reference* length of the sliding part (m)	4	
Maximum weight of the sliding part (kg)	400	800
Pinion module	4	

^{*} For other-than-standard measurements, see the following graphs.

TECHNICAL DATA

Datum	BX704AGS	BX708AGS	BX708RGS
Protection rating (IP)		44	
Power supply (V - 50/60 Hz)	23	O AC	120 AC
Input voltage to motor (V - 50/60 Hz)			110 AC
Stand-by consumption (W)	2.6	2.4	2.4
Consumption with Green Power (W)		0.5	
Power (W)	420	530	420
Thrust (N)	300	800	800
Opening speed (m/min)		10	
Operating temperature (°C)		-20 to +55	
Condenser (µF)	12	20	
Apparatus class		I	
Motor's heat protection (°C)		150	
Weight (Kg)		15	

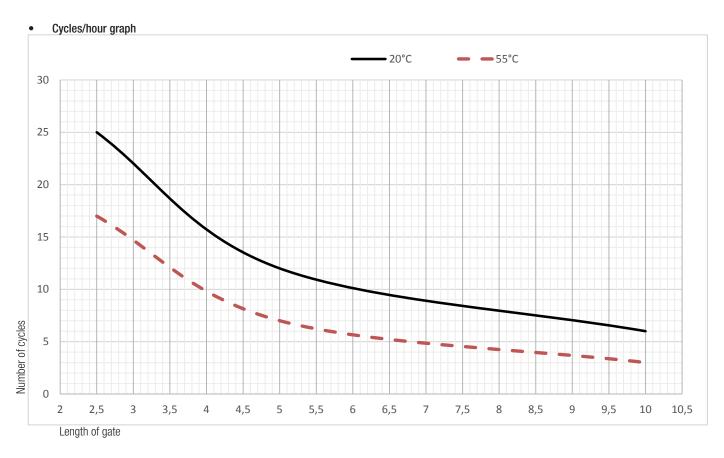
DIMENSIONS

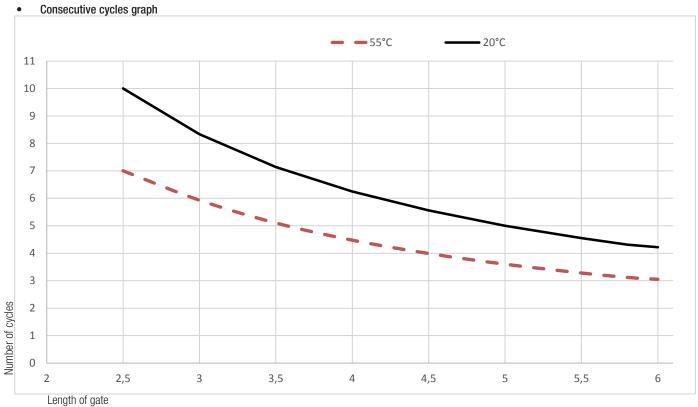


Dotum	BX704AGS / BX708AGS
Datum	BX7080RGS
Cycles/hour (no.)	17
Consecutive cycles (no.)	6

The cycles calculation refers to a gate that **has a standard reference length** (see the intended use), that are professionally installed, free of any mechanical issues and/or accidental friction points, and measured at 20° C, as stated in EN Standard 60335-2-103.

When using other-than-standard measurements, see the graphs below.

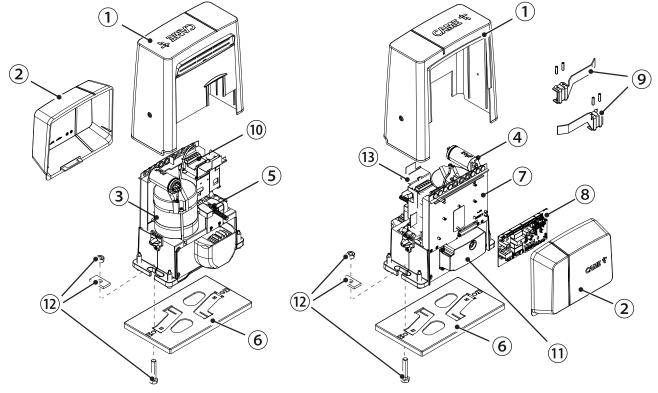




DESCRIPTION OF PARTS

- 1. Cover
- 2. Front cover
- 3. Gear motor
- 4. Condenser
- Mechanical limit switch
- 6. Anchoring plate
- 7. Control board rack

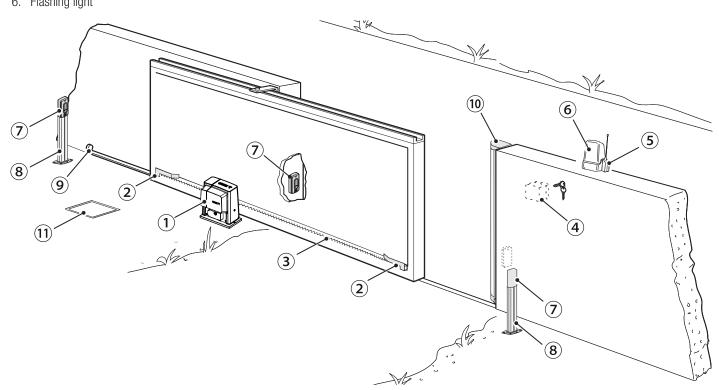
- 8. ZBX7N control board
- 9. Limit-switch fins
- 10. Transformer
- 11. Release hatch
- 12. Fastening hardware
- 13. Mounting brace for housing accessories (optional)



STANDARD INSTALLATION

- 1. Operator
- 2. Limit-switch fins
- 3. Rack
- 4. Key-switch selector
- Antenna
- 6. Flashing light

- 7. Photocells
- 8. Posts
- 9. Mechanical gate stop
- 10. Sensitive safety-edge
- 11. Junction pit



GENERAL INSTALLATION INDICATIONS

 ⚠ Only skilled, qualified staff must install this product.

PRELIMINARY CHECKS

⚠ Before beginning the installation, do the following:

- check that the upper slide-guides are friction-free;
- check that the gate is stable and that the casters are in good working order and lubricated;
- check that the ground rails are well-fastened, entirely on the surface and are smooth and level so as not to obstruct the gate's movement;
- make sure you have fitted opening and closing mechanical gate stops;
- make sure that the point where theoperator is fastened is protected from any impacts and that the surface is solid enough;
- set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage.

CABLE TYPES AND MINIMUM THICKNESSES

Connection	cable	length
Connection	< 20 m	20 < 30 m
Input voltage for 230 V AC control board (1P+N+PE)	3G x 1.5 mm ²	3G x 2.5 mm ²
Flashing light	2 x 0.	5 mm ²
Command and control devices	2 x 0.	5 mm ²
TX Photocells	2 x 0.	5 mm ²
RX photocells	4 x 0.	5 mm ²

When operating at 230 V and outdoors, use H05RN-F-type cables that are 60245 IEC 57 (IEC) compliant; whereas indoors, use H05VV-F-type cables that are 60227 IEC 53 (IEC) compliant. For power supplies up to 48 V, you can use FROR 20-22 II-type cables that comply with EN 50267-2-1 (CEI).

- To connect the antenna, use the RG58 (we suggest up to 5 m).
- For paired connection and CRP, use a UTP CAT5-type cable (up to 1,000 m long).
- 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 in that the space for fastening the operator and accessories varies depending on the installation area. It is up to the fitter, therefore, to choose the most suitable solution.

The drawing show an operator fitted on the left.

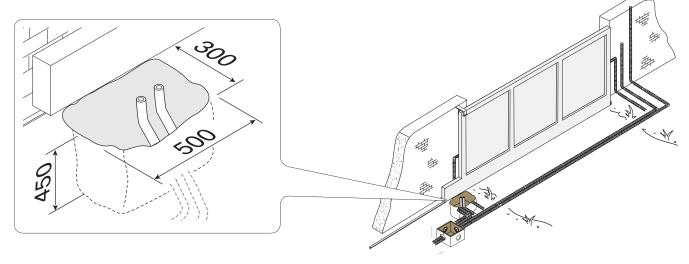
LAYING THE CORRUGATED TUBES

Dig a hole for the foundation frame.

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

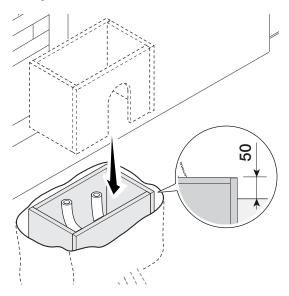
For connecting the gearmotor we suggest using a Ø 40 mm corrugated tube, whereas for the accessories we suggest Ø 25 mm tubes.

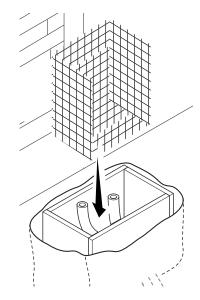
The number of tubes depends on the type of system and the accessories you are going to fit.



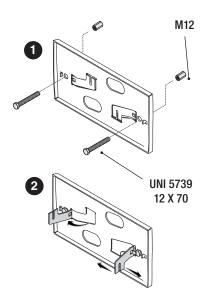
Set up a foundation frame that is larger than the anchoring plate and sink it into the dug hole. The foundation frame must jut out by 50 mm above ground level.

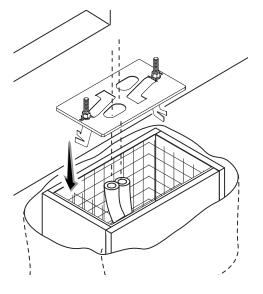
Fit an iron cage into the foundation frame to reinforce the concrete.



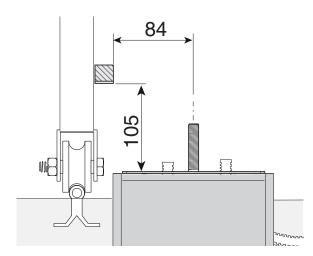


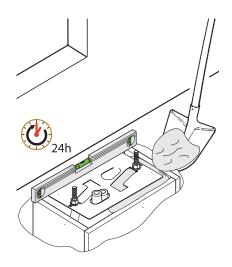
Fit the bolts into the anchoring plate and tighten them using the nuts. Remove the pre-shaped clamps using a screw driver or pliers. Place the plate over the iron cage. Careful! The tubes must pass through their corresponding holes.



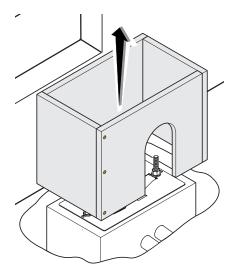


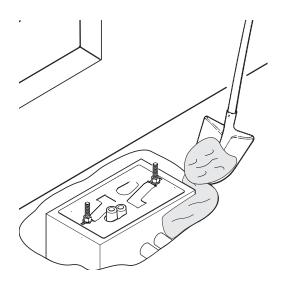
If the rack is already there, place the anchoring plate, being careful to respect the measurements shown in the drawing. Fill the foundation frame with concrete. The plate must be perfectly level with the bolts which are entirely above surface. Wait at least 24 hrs for the concrete to solidify.





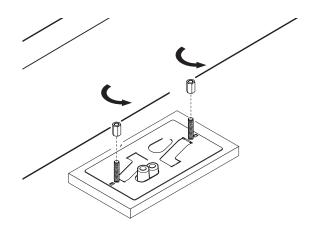
Remove the foundation frame and fill the hole with earth around the concrete block.

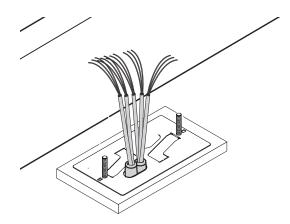




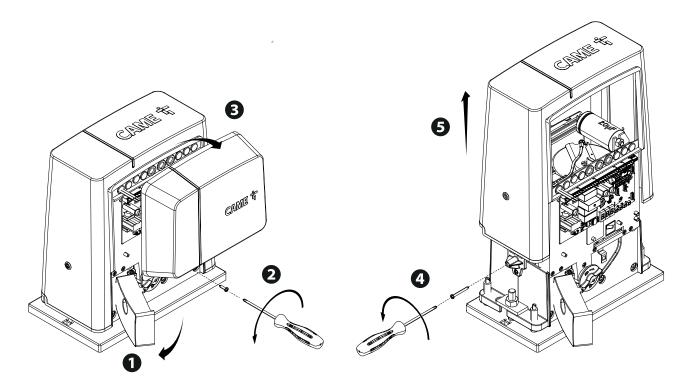
Remove the nuts from the bolts.

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





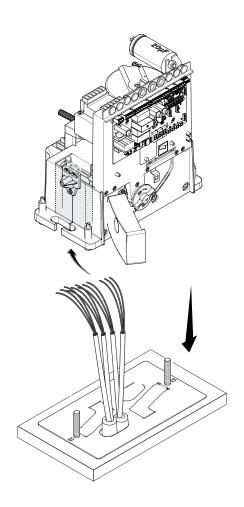
Removethe front cover and the operator casing.

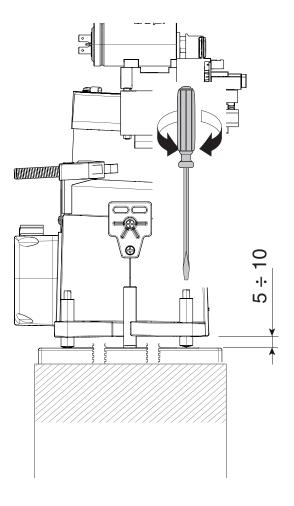


Place the operator on top of the anchoring plate.

Caution! The electric cables must pass under the gearmotor casing and must not touch any parts that may overheat during use, such as the motor or the transformer, and so on).

Lift the gearmotor by 5 to 10 mm from the plate by adjusting the threaded steel feet to allow any subsequent adjustments between pinion and rack.



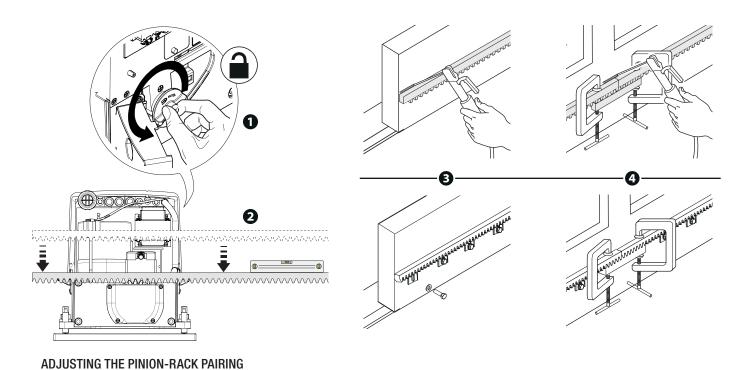


FASTENING THE RACK

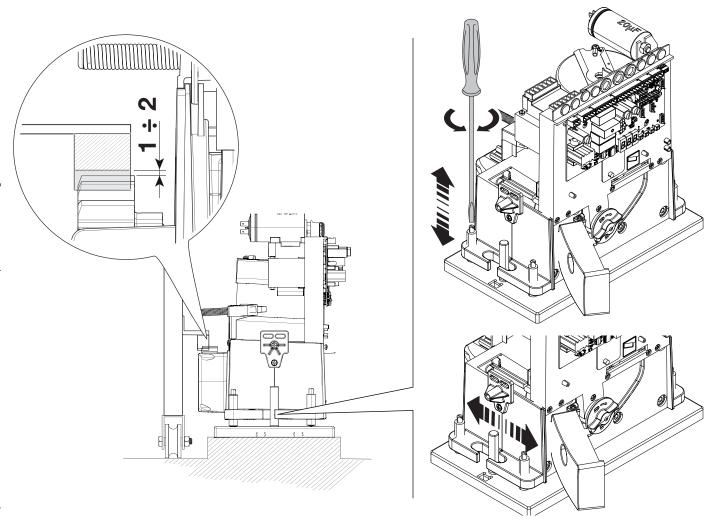
If the rack is already set up, the next step should be to adjust the rack-and-pinion coupling distance, otherwise, fasten it:

- release the operator;
- rest the rack above the operator pinion;
- weld or fasten the rack to the gate along its entire length.

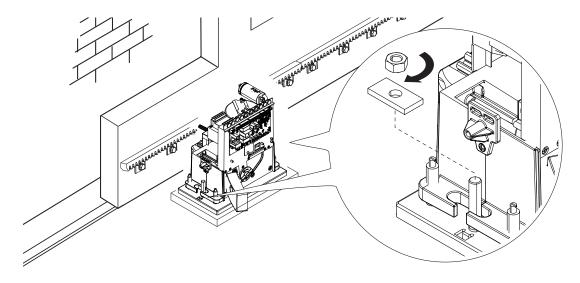
To assemble the rack modules, use an extra piece and rest it under the joint, then fasten it using two clamps.



Manually open and close the gate and adjust the pinion-rack coupling distance using the threaded feet (vertical adjustment) and the holes (horizontal adjustment). This prevents the gate's weight from bearing down on the operator.



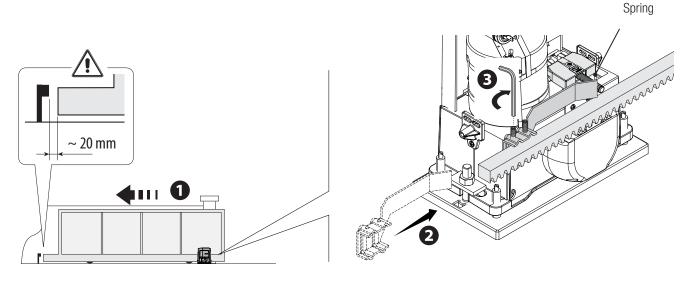
Once the adjustments are complete, fasten the operator to the plate using the supplied hardware.



ESTABLISHING THE LIMIT-SWITCH POINTS

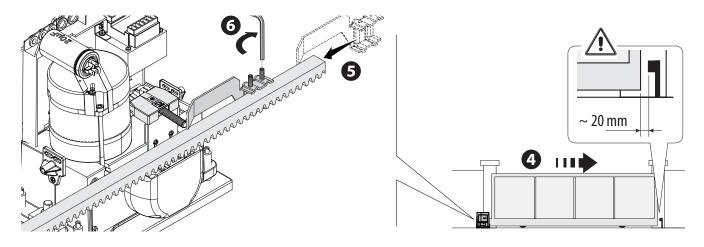
For opening:

- open the gate; •
- fit the opening limit-switch tab onto the rack until the micro switch activates (spring) and fasten it using the grub screws. 29



For closing:

- close the gate; 4
- fit the closing limit-switch tab into the rack until the micro-switch is activated (spring) and fasten it using the grub screws. **§ 6**



CONTROL BOARD

△ Caution! Before doing any work on the control board, cut off the mains power supply, and disconnect any batteries.

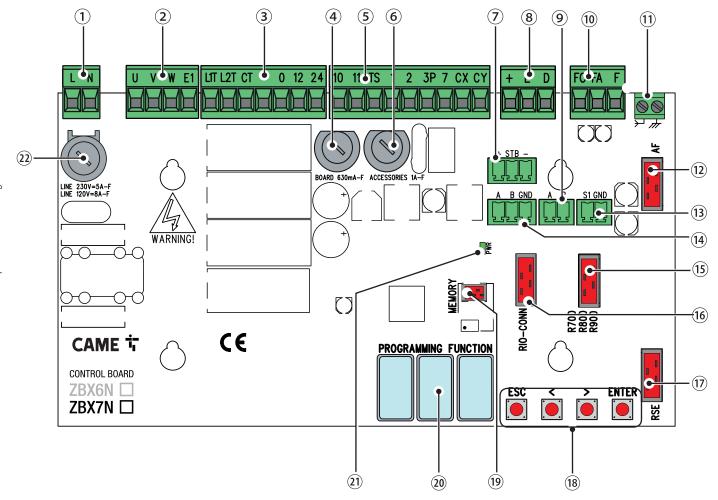
The functions available on the input and output contacts, the time adjustments and user management are all set and viewable on the segmented graphic display.

Fuses	ZBX7N
LINE - Line	5 A-F (230 V AC)
LINE - LINE	8 A-F (120 V AC)
C.BOARD - Card	630 mA-F
ACCESSORIES - Accessories	1 A-F

DESCRIPTION OF PARTS

- 1. Power supply terminals
- 2. Gear motor terminals
- 3. Transformer terminals
- 4. Control-board fuse
- 5. Terminals for control and safety devices
- 6. Fuse accessories
- 7. Terminals for the RGP1 module
- 8. Encoder terminals
- 9. Keypad selector terminal
- 10. Terminals for limit-switch micro-switches
- 11. Antenna terminal

- 12. AF card slot
- 13. Terminals for transponder selector
- 14. Terminals for paired of CRP connection
- 15. Connector for the R700/R800/R900 card
- 16. Connector for the RIO-CONN card
- 17. RSE card slot
- 18. Programming buttons
- 19. Memory roll card slot
- 20. Display
- 21. Power supply on warning LED
- 22. Line fuse

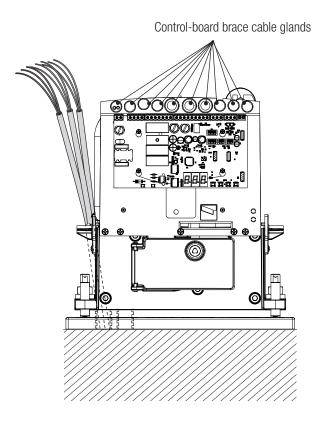


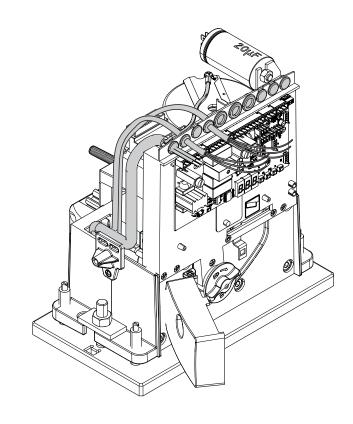
ELECTRICAL CONNECTIONS

 $\ \ \, \triangle$ Connect all wires and cables in compliance with the law.

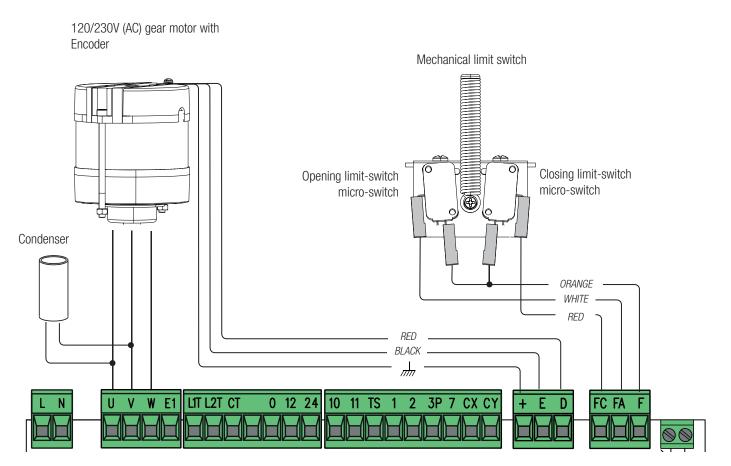
Before connecting all the wires, set up the cables by using cable glands on the control board brace, as shown in the figure.

⚠ The electrical cables must not touch any heated parts such as the motor, transformer, and so on.





FACTORY WIRING



Flashing light connection output (contact rated for: 230 V AC - 25 W max) and/or additional light (contact rated for: 230 V - 60 W max).

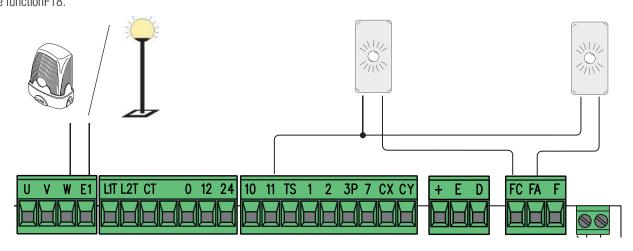
See functionF18.

Gate closed warning output (contact rated for: 24 V AC - 3 W max).

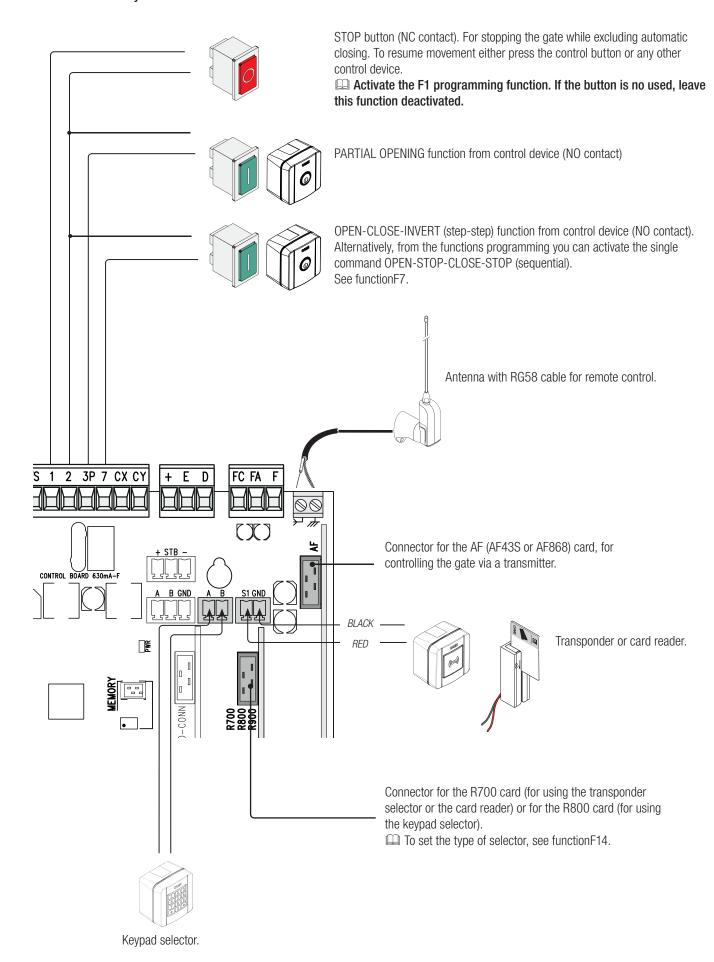
Gate open warning output (contact rated for: 24 V AC - 3 W max).

☐ To change the motor torque, plug the faston terminal as shown into one

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WARNING! For the system to work properly, before fitting any snap-in card (e.g. the AF R800), you MUST CUT OFF THE MAIN POWER SUPPLY and remove any batteries.



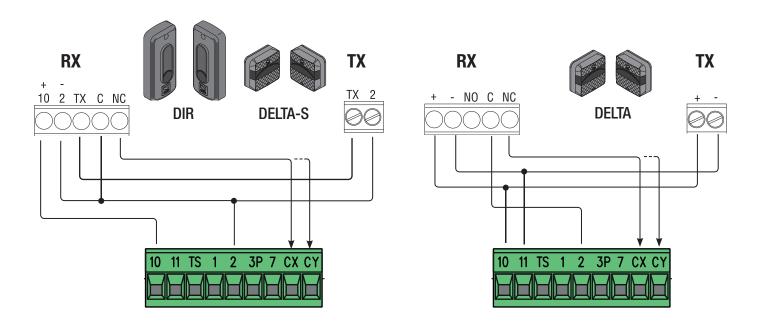
Photocells

Configure contact CX or CY (NC), safety input for photocells.

See functions F2 (CXinput), or F3 (CY input) in:

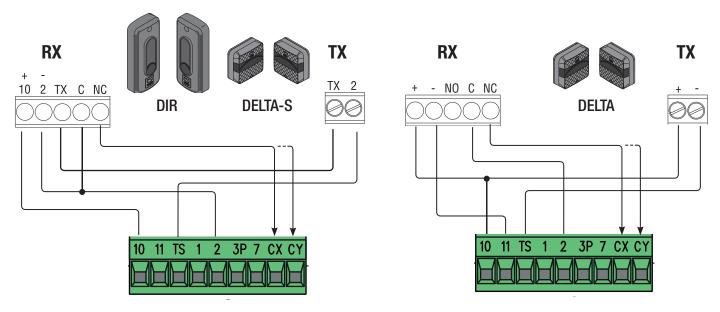
- C1 reopening during closing. When the gate is closing, opening the contact triggers the inversion of movement until the gate is fully open again;
- C2 closing during opening. When the gate is opening, opening the contact triggers the inversion of movement until the gate is completely closed.
- C3 partial stop. Stopping of the gate, if it is moving, with consequent automatic closing (if the automatic closing function has been entered);
- C4 obstruction wait. Stopping of the gate, if it is moving, which resumes movement once the obstruction is removed.

If contacts CX and CY are not used they should be deactivated during programming.



Photocells (safety test)

At each opening and closing command, the control board checks the efficacy of the safety devices. Any malfunction inhibits any command and the display willshow the Er4 wording. Enable function F5 in programming.

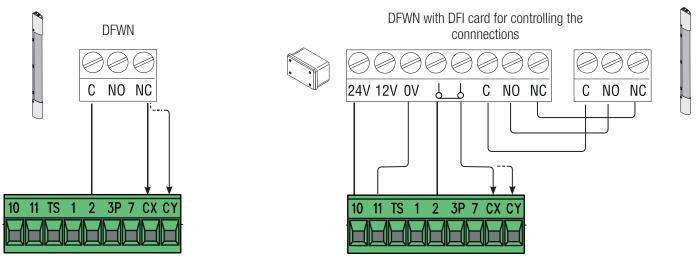


Configure contact CX or CY (NC), safety input for sensitive safety-edges.

See functionsF2 (input CX)or F3 (input CY) in:

- C7 (sensitive safety edges with clean contact) or r7 (sensitive safety edges with 8K2 resistance), reopening during closing. When the gate is closing, opening the contact triggers the inversion of movement until the gate is fully open again;
- C8 (sensitive safety edges with clean contact) or r8 (sensitive safety edge with 8K2 resistance), reclosing during opening. When the gate is opening, opening the contact triggers the inversion of movement until the gate is completely closed.

If unused, contacts CX and CY should be deactivated during programming.



RIO WIRELESS DEVICES

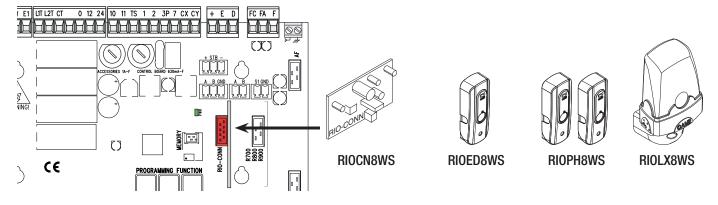
Plug the RIOCN8WS card into its corresponding connector on the control board.

Set the function to be associated to the wireless device (F65, F66, F67 e F68).

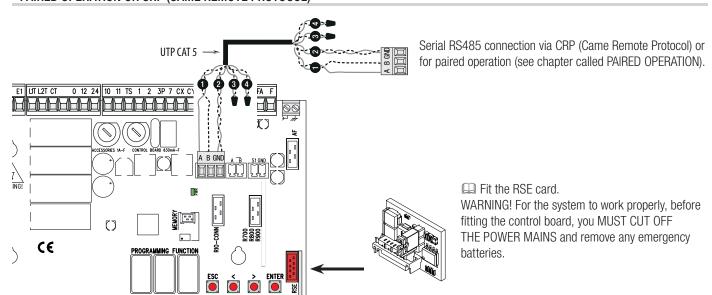
Configure the RIOED8WS, RIOPH8WS and RIOLX8WS wireless accessories by following the indications shown in the folder enclosed with each accessory.

If the devices are not configured with the RIOCN8WS card, the display will read out E18.

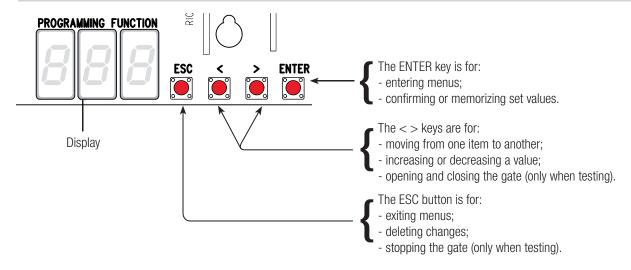
⚠ If there are any radio-frequency disturbances to the system, the wireless system will inhibit the normal operation of the operator, and this error will show up on the display as E17.



PAIRED OPERATION OR CRP (CAME REMOTE PROTOCOL)

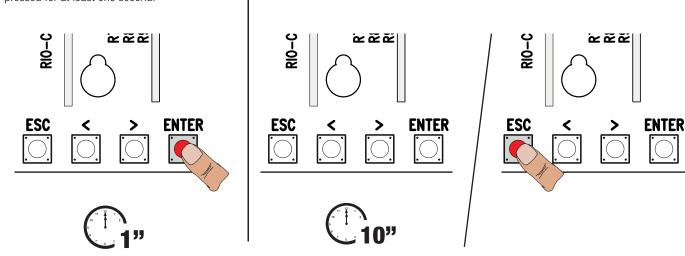


DESCRIPTION OF THE COMMANDS



☐ To enter the menu, keep the ENTER button pressed for at least one second.





FUNCTIONS MENU

Total stop [1-2]

Input [2-CX]

Input [2-CY]

⚠ When programming, the operator needs to be in stop mode.

safety device is inserted into (1-2). If unused, select 0.

OFF (default) / ON

NCinput – Can associate: C1 = reopening during closing by photocells, C2 = reclosing during opening by photocells, C3 = partial stop, C4 = obstruction wait, C7 = reopening during closing by sensitive safety-edges (with clean contact), C8 = reclosing during opening by sensitive safety-edges (with clean contact), r7 = reopening during closing for sensitive safety edges (8K2 resistive input), - r8 = reclosing during opening for sensitive safety edges (8K2 resistive input).

The C3 Partial stop function only appears if the F 19 Automatic closing time function is activated.

OFF (default) / 1=C1 / 2=C2 / 3=C3 / 4=C4 / 7=C7 / 8=C8 / r7=r7 / r8=r8

NC input – Can associate: C1 = reopening during closing by photocells, C2 = reclosing during opening byphotocells, C3 = partial stop, C4 = obstruction wait, C7 = reopening during closing by sensitive safety-edges (with clean contact), C8 = reclosing during opening by sensitive safety-edges (with clean contact), r7 = reopening during closing for sensitive safety edges (8K2 resistive input), - r8 = reclosing during opening for sensitive safety edges (8K2 resistive input).

🕮 The C3 Partial stop function only appears if the F 19 Automatic closing time function is activated.

OFF (default) / 1=C1 / 2=C2 / 3=C3 / 4=C4 / 7=C7 / 8=C8 / r7=r7 / r8=r8

F1

F2

F3

F5	Safety test	After every opening or closing command, the board will check whether the photocells are working properly. The safety test is always active for wireless devices. This function only appears if the photocells have been enabled. OFF= Deactivated (default) / 1=CX / 2=CY / 4=CX+CY
F6	Maintained action	The gate opens and closes by keeping the button pressed. Opening button on contact 2-3P and closing button on contact 2-7. All other control devices, even radio-based ones, are excluded. *OFF (default) / ON
F7	Command [2-7]	From the control device connected to 2-7, it performs the (open-close-invert) step-step, (open-stop-close-stop), sequential, open or close command $0 = Step-step \ (default) / 1 = Sequential / 2 = Open / 3 = Close$
F8	Command (2-3P)	From the control device connected to 2-3P, it performs a partial opening or only opening of the gate. $0 = Partial\ opening\ (default)\ /\ 1 = Open$
F9	Obstruction detection with motor stopped	With the gate closed, opened or totally stopped, the gearmotor stays idle if the safety devices, that is, photocells or sensitive safety-edges detect an obstruction. *OFF (default) / ON*
F11	Encoder	Managing slow-downs, obstruction detections and sensitivity. OFF / ON (default)
F14	Sensor type	Setting the type of accessory for controlling the operator. $0 = command$ with transponder sensor or magnetic card reader $/$ $1 = command$ with keypad selector (default)
F18	Additional light	Additional light connection input on W-E1. Flashing light: it flashes during the gate's opening and closing phases. Cycle light: additional external light for increasing illumination in the drive way. It stays on from the moment the leaf starts opening until it again closes completely - including the waiting time before the automatic-closing time. The cycle light setting appears only of the automatic closing is activated. OFF = Flashing light (default) / 1 = Cycle
F19	Automatic Closing Time	The automatic-closing wait starts when the opening limit switch point is reached and can be set to between 1 and 180 seconds. The automatic closing does not work if any of the safety devices trigger when an obstruction is detected, or after a total stop, or during a power outage. OFF $(default) / 1 = 1 second / / 180 = 180 seconds$
F20	Automatic closing time after partial opening	The wait before the automatic closing starts after a partial opening command for a time of between 1 s and 180 s. The automatic closing does not work if any of the safety devices trigger when an obstruction is detected, or after a total stop, or during a power outage. OFF / $1 = 1 \ second / / 10 = 10 \ seconds \ (default) / 180 = 180 \ seconds$
F21	Pre-flashing time	Adjusting the pre-flashing time for the flashing light connected to W-E1 before each maneuver. The flashing time is adjustable from one to ten seconds. $OFF (default) / 1 = 1 \ second / / 10 = 10 \ seconds$
F30	Opening and closing slow-down speed	Gate slow-down speed before the limit-switch when opening and closing. This function only appears if the Encoder function is activated. OFF (default) / 1 = High / 2 = Average / 3 = Low
F34	Travel sensitivity	Adjusting obstruction detection sensitivity during gate-leaf travel. This function only appears if the Encoder function is activated. maximum sensitivity / / 100 = minimum sensitivity (default)
F35	Slow-down sensitivity	Adjusting obstruction detection sensitivity during slow-down. This function only appears when functions F11 and F30 are activated. maximum sensitivity / / 100 = minimum sensitivity (default)
F36	Adjusting the partial opening	Adjustment as a percentage of total travel, during gate opening. This function only appears if the Encoder function is activated. 10 = 10% of the gate travel / / 80 = 80% of the gate travel (default)
F37	Opening slow-down point	Percentage adjustment of the total door travel, of the opening slow-down starting point. This function only appears when functions F11 and F30 are activated. $5 = 5\%$ of the gate travel / / $15 = 15\%$ of gate travel (default) / / $30 = 30\%$ of gate travel

Percentage adjustment of the total door travel, from the closing slow-down starting point.

Closing slow-down

U 1	Entering users	Entering up to 250 users and associating to each one a function of choice among those included. Use a transmitter or other control device to enter the data (see paragraph called ENTERING A USER WITH AN ASSOCIATED COMMAND). 1 = Step-step command (open-close) / 2 = Sequential command (open-stop-close-stop) / 3 = Open only command / 4 = Partial opening command
U 2	Deleting users	Deleting single users (see paragraph called DELETING SINGLE USERS)
U 3	Deleting users	Deleting all users. OFF (default) / ON = Delete
U 4	Decoding the code	Select the type of transmitter radio coding that you wish to save on the control board. \(\triangle \) When you select a radio coding, all saved transmitter are automatically deleted. \(\triangle \) TWIN's coding lets you save multiple users with the same key (Key block). 1 = all (default) / 2 = Rolling Code / 3 = TWIN
A 1	Motor type	Select the type of operator used on the system. 1 = BX704AGS / 2 = BX708AGS
A 3	Gate-swing calibration	Automatic calibration of the gate-leaf swing (see the CALIBRATING SWING paragraph). ☐ This function only appears if function F11 is activated. ⚠ If the operator is not calibrated, it excludes all commands. OFF (default) / ON
A 4	Resetting parameters	Caution! The default settings will be restored. OFF (default) / ON
A 5	Maneuver count	It is for viewing the number of maneuvers done. OFF (default) / ON
H 1	Version	View the firmware version.

SETTING UP

Once the electrical connections are complete, have skilled staff commission the operator.

Before continuing, make sure the area is free of any obstructions, and that there are mechanical, opening and closing gate stops in place.

Power up and begin configuring the system. Important! Start programming by first doing the following functions: F54 (Opening direction) and F1 (Total stop) and A3 (Calibrating gate travel).

Once the programming is done, verify that the operator and all the accessories are working properly. Use the < > keys to open and close the gate and ESC to stop it.

After powering up the system, the first maneuver is always the opening. In this phase, the gate cannot be closed. You will need to wait for the gate to completely open.

△ Immediately press the STOP button if any suspicious malfunctions, noises or vibrations occur in the system.

△ Before calibrating the gate travel, position the gate half-way, check that the maneuvering area is clear of any obstruction and check that there are mechanical opening and closing stops.

⚠ The mechanical gate-stops are obligatory.

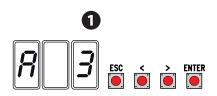
Important! During calibration, all safety devices will be disabled.

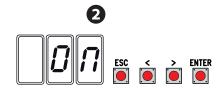
Select [A 3] window. Press ENTER to confirm. 1

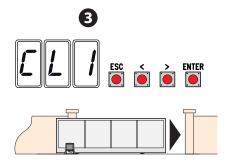
Select [ON]. Press ENTER to confirm the automatic travel calibration procedure. 2

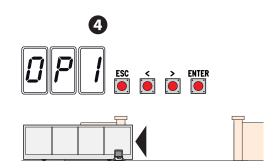
The gate will perform a closing maneuver until it reaches a final stop... 3

...then the gate will perform an opening maneuver until it reaches a final stop. 4









MANAGING USERS

When adding and deleting users, the flashing numbers appearing are those numbers that are available and usable to assign to a new user (max.

Before registering the users, make sure the AF radio card is plugged into the connector (see the paragraph called CONTROL DEVICES).

ENTERING USERS WITH AN ASSOCIATED COMMAND

Select **U 1**. Press ENTER to confirm. **1**

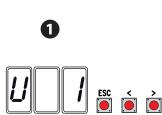
Select a command to associate to the user: The commands are:

- **1** = step-step (open-close);
- **2** = sequential (open-stop-close-stop);
- -3 = only open;
- **4** = partial opening/pedestrian.

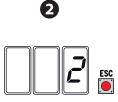
Press ENTER to confirm... 2

... a number between 1 and 250 will start flashing for a few seconds. Send the code from the transmitter or other control device, such as, a keypad selector or a transponder.

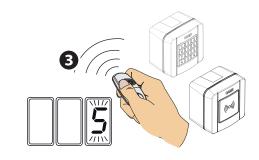
Note down the user entered into the LIST OF REGISTERED USERS.











LIST OF REGISTERED USERS

LIST U	F REGISTERED USERS		
1	48	95	
2	49	96	
3	50	97	
4	51	98	
5	52	99	
6	53	100	
7	54	101	
8	55	102	
9	56	103	
10	57	104	
11	58	105	
12	59	106	
13	60	107	
14	61	108	
15	62	109	
16	63	110	
17	64	111	
18	65	112	
19	66	113	
20	67	114	
	68	115	
21			
22	69	116	
23	70	117	
24	71	118	
25	72	119	
26	73	120	
27	74	121	
28	75	122	
29	76	123	
30	77	124	
31	78	125	
32	79	126	
33	80	127	
34	81	128	
35	82	129	
36	83	130	
37	84	131	
38	85	132	
39	86	133	
40	87	134	
41	88	135	
42	89	136	
43	90	137	
44	91	138	
45	92	139	
46	93	140	
47	94	141	

142	179	216
143	180	217
144	181	218
145	182	219
146	183	220
147	184	221
148	185	222
149	186	223
150	187	224
151	188	225
152	189	226
153	190	227
154	191	228
155	192	229
156	193	230
157	194	231
158	195	232
159	196	233
160	197	234
161	198	235
162	199	236
163	200	237
164	201	238
165	202	239
166	203	240
167	204	241
168	205	242
169	206	243
170	207	244
171	208	245
172	209	246
173	210	247
174	211	248
175	212	249
176	213	250
177	214	
178	215	

DELETING SINGLE USERS

Select **U 2**. Press ENTER to confirm. **1**

Use the arrow keys select the number of the user you wish to delete. Press ENTER to confirm... 2

... CLr will appear on the screen to confirm deletion. 3































SAVING AND UPLOADING ALL DATA (USERS AND CONFIGURATION) WITH THE MEMORY ROLL

Procedure for memorizing all of the system's user and configuration data by using the Memory Roll, so they can be used with another control board, even on another system.

Caution! Fitting and extracting the Memory Roll must be done with the mains power disconnected.

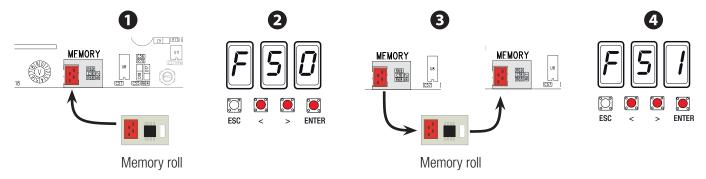
Fit the Memory Roll into the its corresponding connector on the control board. 1

Select **ON** from the **F50** and press ENTER to confirm the saving of data in the Memory Roll. **2**

Extract the Memory roll and fit it into the connector of another control board. 3

Select **ON** from the **F51** and press ENTER to confirm the uploading of data into the Memory Roll. **4**

After memorizing the data, it is best to remove the Memory roll.



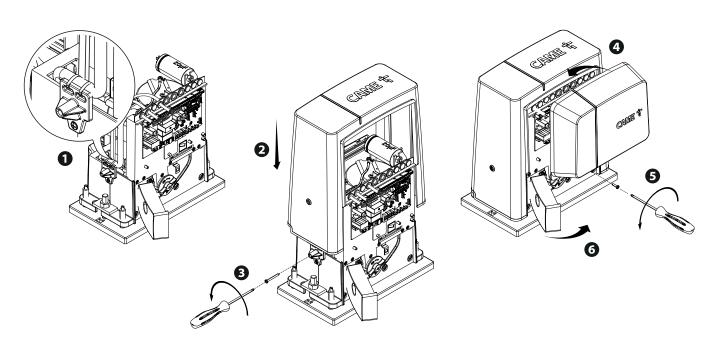
ERROR MESSAGES

The error messages appear on the display.

E1	Calibration error.
E2	Calibrating Encoder.
E3	Encoder is broken.
E4	Safety test error.
E7	Insufficient working time.
E8	Release hatch open.
E9	Closing obstruction.
E10	Opening obstruction.
E11	Maximum number of obstructions detected.
E15	Incompatible transmitter error.
E17	Wireless system error.
E 18	Missing wireless system configuration

FINAL OPERATIONS

Once the operator is up and running and the users are registered, refit and fasten the covers without pinching any wires.



WHAT TO DUTE					
ISSUES	POSSIBLE CAUSES	POSSIBLE FIXES			
It neither opens nor	Power supply is missing	 Check main power supply 			
closes	The gear motor is stuck	 Lock the gearmotor 			
	The transmitter emits a weak signal or no signal	 Replace the batteries 			
	Control buttons or selectors stuck	Check the state of all devices			
The gate opens but	The photocells are working	Check that there are no obstructions			
does not close		in the photocells' area of operation			

PAIRED OPERATION

WILLAT TO DO IE

Electrical wiring

- Fit the RSE card into the connector on the control panel of both operators;

Connect the two panels by using a CAT 5 (max 1,000 m type cable to terminals A-A / B-B / GND-GND, see paragraph called PAIRED OPERATION; Connect all of the control and safety devices on the MASTER operator's control panel.

Saving users

Execute the procedure, to add a user with an associated command, on the MASTER panel.

Programming

Start by performing the following settings only on the MASTER control panel:

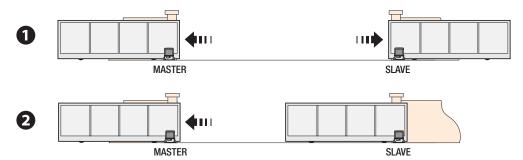
- select 1 (paired mode) from the F49 function and press ENTER to confirm;
- select the opening direction from the F54 function and press ENTER to confirm;
- select ON from the F52 function and press ENTER to confirm the transferring of the parameters to paired mode;
- select ON from function A3 and press ENTER to perform the gate travel calibration.
- The programming keys on the SLAVE control panel are disabled.

Operating modes

Either STEP-STEP ONLY **OPEN** or command. Both leaves open.

2 PARTIAL/PEDESTRIAN OPENING command. Only the MASTER operator's leaf opens.

For the types of command that can be selected and paired to users, see the ENTERING USERS WITH ASSOCIATED COMMANDS.



DISMANTLING AND DISPOSAL

TAME CANCELLI AUTOMATICI S.p.A. applies a certified Environmental Management System at its premises, which is 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

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!

Came S.p.a.

indirizzo / address / adresse / adresse / dirección / endereço / adres / adres Via Martiri della Libertà 15 - 31030 Dosson di Casier, Treviso - Italy

DICHIARA CHE LE AUTOMAZIONI PER CANCELLI SCORREVOLI / DECLARES THAT THE DRIVES FOR SUDING GATES / ERIKLÂRT DASS DIE AUTOMATISIERUNGEN PÜR SCHIEBETORE / DECLARE QUE LES AUTOMATISATIONS POUR PORTALLS COULISSANTS / DECLARA QUE LAS AUTOMATIZACIONES PARA PUERTAS CORREDERAS / DECLARA QUE AS AUTOMATIZAÇÕES PARA PORTOES DE CORRER / OSWIADOZA ZE AUTOMATYKA DO BRAM PRZESUWNYCH / VERKLAART DAT DE AUTOMATISERING VOOR SCHUIFHEKKEN

BX704AGS BX708AGS BX708RGS

SONO CONFORMIALLE DISPOSIZIONI DELLE SEGUENTI DIRETTIVE / THEY COMPLY WITH THE PROVISIONS OF THE FOLLOW-ING DIRECTIVES / DEN VORGABIEN DER FOLGENDEN RICHTLINIEN ENTSPRECHEN / SONT CONFORMIES AUX DISPOSITIONS DES DIRECTIVES SUIVANTES / CUMPLEN CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS / ESTÃO DE ACORDO COM AS DISPOSIÇÕES DAS SEGUINTES DIRECTIVAS / SA ZGODNE Z POSTANOWIENIAMI NASTEPUJACYCH DYREKTYW EUROPEJSKICH / VOLDOEN AAN DE VOORSCHRIFTEN VAN DE VOLGENDE RICHTLIJNEN:

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Riferimento norme armonizzate ed altre norme tecniche / Refer to European regulations and other technical regulations / Harmonisierte Bezugsnormen und andere technische Vorgaben / Référence aux normes harmonisées et aux autres normes techniques / Referencia normas armonizadas y otras normas técnicas / Peterência de normas harmoniza-das e outras normas técnicas / Odnosen normy ujednoticone i nne normy technicane / Geharmoniseerde en andere technische normen waarnaar is vanwazen.

EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011 EN 62233:2008 EN 60335-1:2012+A11:2014 EN 60335-2-103:2015

RISPETTANO I REQUISITI ESSENZIALI APPLICATI: / MEET THE APPLICABLE ESSENTIAL REQUIREMENTS: / DEN WESENTLICHEN ANGEWANDTEN ANFORDERUNGEN ENTSPRECHEN: / RESPECTENT LES CONDITIONS REQUISES NECESSAIRES APPLIQUEES: / CUMPLEN CON LOS REQUISITOS ESSENCIALES APLICADOS: / RESPETIAM O REQUISITOS ESSENCIAIS APLICADOS: / SPEŁNIAJA PODSTAWOWE WYMAGANE WYRIUNKI: / VOLDOEN AAN DE TOEPASBARE MINIMUM EISEN;

1.1.3; 1.1.5; 1.2.1; 1.2.2; 1.3.2; 1.3.7; 1.3.8.1; 1.4.1; 1.4.2; 1.5.1; 1.5.6; 1.5.8; 1.5.9; 1.5.9; 1.5.13; 1.6.1; 1.6.3; 1.6.4; 1.7.1; 1.7.2; 1.7.4

PERSONA AUTORIZZATA A COSTITURE LA DOCUMENTAZIONE TECNICA PERTINENTE / PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION / PERSON DIE BEVOLLAÑOHTIGT IST, DIE RELEVANTEN TECHNICOHEN UNTERLAGEN ZUSAMMENZUSTELLEN / DOCUMENTATION TECHNIQUE S'RECIPIQUE D'AUTORISATION A CONSTRUIPE DE / PERSONA FACULTADA PAPA EL ABORDAR LA DOCUMENTACIÓN TECNICA PERTINENTE / PESSOA AUTORIZADA A CONSTITUIR A DOCUMENTAÇÃO TÉCNICA PERTINENTE / POSSOA AUTORIZADA A CONSTITUIR A DOCUMENTAÇÃO TÉCNICA PERTINENTE / POSSOA AUTORIZADA A CONSTITUIR A DOCUMENTAÇÃO TÉCNICA PERTINENTE / POSSOA AUTORIZADA A CONSTITUIR A DOCUMENTAÇÃO TÉCNICA PERTINENTE / POSSOA AUTORIZADA A CONSTITUIR A DOCUMENTAÇÃO TÉCNICA PERTINENTE / POSSOA AUTORIZADA A CONSTITUIR A DOCUMENTATION DE CONSTITUIR DE SAMEN TE STELLEN.

DICHIARAZIONE DI INCORPORAZIONE allegato /DECLARATIONOF INCORPORATION annex / ERKLÄRUNG FÜR DEN EINBAU anhang / DÉCLARATION D'INCORPORATION annexe / DECLARACIÓN DE INCORPORACIÓN anexo / DECLARAÇÃO DE INCORPORAÇÃO anexo / DEKLARACJA WBUDOWANIA zatączniku / INBOUWVERKLARING bijlage IIB - 2006/42/CE

La documentation teorica pertinente è stata compilata in conformità all'allegato VIIB. / The pertinent technical documentation has been drawn up in compilance with attached document VIIB. / Die relevante technicale bedoumentation wurde enterprechend der Antiga VIIB ausgastell. / La documentation technique apéditique a été remgile conformément à Frances IIB / La documentation technique apéditique a été remgile conformément à Transes IIB / La documentation technique spécifique de acordo com o a mexica villa. / Odnosna dokumentacja technicane zostala zredagowana zgodnie z zalaczirikiem VIIB. / De technische documentatie teczie is oppastel in overrensterming met de bijlage VIIB.

CAME S.p.a. sl impegna a trasmettere, in risposta a una richiesta adeguatamente motivata delle autorità nazional, informazioni pertinenti sulle quasi macchine, e / Carne S.p.A., following a duly motivated request from the national authorities, undertakes to provide information related to the quasi macchines, and / Die Firma Carne S.p.A. verpilichtet sich auf eina angemessen motiverte Antrage der staatlichen Behörden Informationen über die unvollständigen Maschinen, zu übermittetn, und / Carne S.p.A. s'engage à transmettre, en réponse à une demande bien fondée de la part des autorities nationales, les renseighements relatifis aux quasi machines / Carne S.p.A. compromete sinemitir, com response a une acclinitud adequadamente fundada por parte de las autoridades nacionales, informaciones relacionades con les cuasimiquinas / Carne S.p.A. compromete-se em transmitt, em respoeta a una solicitação motivada apropriadamente pelas autoridades nacionale, informaciones relacionades con les cuasimiquinas / Carne S.p.A. zobovászuje sie do udzieteria informacij dotyczacych maszyn nacionales, informacionales, informacionales, paras komprehenthe organy panstwowe / Carne S.p.A. zobovászuje sie do udzieteria informacij dotyczacych maszyn nacionale autoritatien de relavante informatie voor de niet voltocide machine te verstrekken,

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VIETA / FORBIDS / VERBIETET / INTERDIT / PROHIBE / PROIBE / ZABRANIA SIE / VERBIETD

In massa in servido finché la macchina finde in ou deve essere incorporata non è stata dichierata conforme, se del caso al 2006/42/CE. / commissioning of the above mentioned until such moment when the finst machine hind which they must be incorporated, has been duclared complant, if perinten, to 2006/42/CE. / Cerbierischenime bevor de "Endmaschine" in die die unvollständige Maschine eingebaut wird, als konform erklärt wurde, gegebanenfals gemBB der Flichtline 2006/42/CE. Universe en service tant que la machine Bhale dans laquel elle doit dire incorporée n'a pas été déclarée conforme, le cas échéant, à la norma 2006/42/CE. / la puesta en servicio hasta que la máquina Bhal en la que será incorporada no haya aldo declarada de conformidad de acuerdo a la 2006/42/CE. / a colocação em funcionamente, aité que a máquina Bhal, onde devem ser incorporadas, não for declarada em conformidade, se de acordo com a 2008/42/CE. / Unichorrienia urzadzeria do casau, kiedy massyra, do której ma byo wbudowany, nie zostanie oceniona jsko zgodna z wymogenti dynetywy 2006/42/WE, jsalt taka procedura byta konieczna. / deze in werking te stellen zolang de eindmachine waarin de niet voltocide machine moet worden ingebouwd in overeenstemming is verklaard, indien toepassetijk met de richtlijn 2008/42/EG.

Dosson di Casier (TV) 30 Novembre / November / November / Novembre / Noviembre / Novembro / Listopad / November 2017

Legale Rappresentante / Legal Representative / Gesetzlicher Vertreter / Representant Legal / Representante Legal / Representante Legal / Prawny Przedstawiciel / Juridische Vertegenwoordiger we

Paolo Menuzzo

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